

NAVY TRAINING SYSTEM PLAN

FOR THE

AIRBORNE EXPENDABLE

COUNTERMEASURES

N78-NTSP-A-50-0109/P

AUGUST 2001

AIRBORNE EXPENDABLE COUNTERMEASURES

EXECUTIVE SUMMARY

This Navy Training System Plan (NTSP) has been developed by the Naval Air Systems Command to identify Manpower, Personnel, and Training requirements associated with Airborne Expendable Countermeasures. Airborne Expendable Countermeasures addressed in this NTSP are currently in the Production and Deployment and Operations and Support phases of the Defense Acquisition System. No previous NTSP exists for Airborne Expendable Countermeasures.

Airborne Expendable Countermeasures are electronic warfare devices used for preemptive or terminal protection of aircraft from Radio Frequency (RF) or Infrared (IR) guided missile attack. Countermeasures are grouped into threat categories of RF passive, RF active, or IR, and include decoy flares, chaff, and expendable RF jamming devices. Decoy flares act as decoys for diverting heat seeking missiles, chaff provides a passive jamming action against enemy radar, and expendable jamming devices transmit RF power to counter airborne and land-based semi-active radar guided missiles. Countermeasure devices are deployed from fixed or rotary wing aircraft equipped with countermeasure dispensers.

There are no preventive maintenance requirements for Airborne Expendable Countermeasures devices at the organizational, intermediate, or depot maintenance levels. Limited upkeep maintenance consisting of visual inspections, loading and unloading, packaging and unpackaging, and compliance with pertinent technical directives is performed at the organizational and intermediate maintenance levels. Preventive maintenance requirements for Airborne Expendable Countermeasure Systems are addressed in the applicable aircraft NTSPs. These functions are within the capability of existing platform and ordnance Navy Enlisted Classifications and Marine Corps Military Occupational Specialties.

Airborne Expendable Countermeasures do not have any impact on existing manpower requirements for officers, flight crews, or ground crews for squadrons, weapons departments (ashore or afloat), or training activities. All existing manpower is adequate to operate, maintain, and support Airborne Expendable Countermeasures.

Training for Airborne Expendable Countermeasures is included in formal aviation ordnance training courses or is accomplished as on-the-job training. A Countermeasures and Associated Cartridges safety lesson has been incorporated into the ordnance training track to present hazards associated with handling and storage of Airborne Expendable Countermeasures. This training is conducted at Maintenance Training Units, Fleet Replacement Enlisted Skills Training activities, and specific aircraft tactical weapons training schools. Specific training on countermeasure devices applicable to a particular aircraft type is conducted at the squadron level. At this time no new training courses are required.

AIRBORNE EXPENDABLE COUNTERMEASURES

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AIRBORNE EXPENDABLE COUNTERMEASURES

LIST OF ACRONYMS

AMD	Activated Metal Decoy
AMTCS	Aviation Maintenance Training Continuum System
AO	Aviation Ordnanceman
ASTE	Advanced Strategic and Tactical Expendable
CINCLANTFLT	Commander in Chief, Atlantic Fleet
CINCPACFLT	Commander in Chief, Pacific Fleet
CMDS	Countermeasures Dispenser System
CNET	Chief Naval Education and Training
CNO	Chief of Naval Operations
DT	Developmental Test
ECP	Engineering Change Proposal
FREST	Fleet Replacement Enlisted Skills Training
FOT&E	Follow-On Test and Evaluation
FY	Fiscal Year
GEN-X	Generic Expendable Decoy
HERO	Hazards of Electromagnetic Radiation to Ordnance
ILSP	Integrated Logistics Support Plan
IPO	International Program Office
IR	Infrared
IRCM	Infrared Countermeasure
MATMEP	Maintenance Training Management and Evaluation Program
MCCDC	Marine Corps Combat Development Command
MOS	Military Occupational Specialty
MTIP	Maintenance Training Improvement Program
MTU	Maintenance Training Unit
NA	Not Applicable
NALC	Naval Ammunition Logistics Code
NAMTRAGRU DET	Naval Air Maintenance Training Group Detachment
NAMTRAU	Naval Air Maintenance Training Unit

AIRBORNE EXPENDABLE COUNTERMEASURES

LIST OF ACRONYMS

NAVAIR	Naval Air Systems Command
NAVAIRSYSCOM	Naval Air Systems Command
NAVPERSCOM	Naval Personnel Command
NEC	Navy Enlisted Classification
NOMMP	Naval Ordnance Maintenance Management Program
NSWC	Naval Surface Warfare Center
NTSP	Navy Training System Plan
OPNAV	Office of the Chief of Naval Operations
OPNAVINST	Office of the Chief of Naval Operations Instruction
OPO	Office of the Chief of Naval Operations Principal Official
OSD	Office of the Secretary of Defense
OT	Operational Test
PEO(T)	Program Executive Officer (Tactical Aircraft Programs)
PIP	Product Improvement Program
PMA	Program Manager, Air
POET	Primed Oscillator Expendable Transponder
RF	Radio Frequency
TFS	Total Force Structure
TTE	Technical Training Equipment
TTSARB	Technology Transfer Security Assistance Review Board
USAF	United States Air Force
USN	United States Navy
WSESRB	Weapons System Explosive Safety Review Board

AIRBORNE EXPENDABLE COUNTERMEASURES

PREFACE

This Proposed Navy Training System Plan (NTSP) has been developed to update the Airborne Expendable Countermeasures Draft Navy Training System Plan, N78-NTSP-A-50-0109/D, dated December 2000. This document has been updated to comply with guidelines set forth in the Navy Training Requirements Documentation Manual. This Proposed NTSP incorporates review comments as follows:

- **Chief of Naval Operations (N79).** Comments related to Technical Training Equipment (TTE) and video tape refresher training.
- **Chief of Naval Education and Training (MTU 4030).** Comments related to course identification in reference to training track D/E 646-7007 and Training Devices.

New manpower data from Tables of Organization (T/O) and Activity Manpower Documents (AMD) have been incorporated to reflect the latest manpower and training requirements, along with information on current logistics support requirements for training activities that provide instruction on maintenance and safety while using Airborne Expendable Countermeasures.

PART I - TECHNICAL PROGRAM DATA

A. TITLE-NOMENCLATURE-PROGRAM

1. **Nomenclature-Title-Acronym.** Airborne Expendable Countermeasures
2. **Program Element.** 0204162N and 0206138M

B. SECURITY CLASSIFICATION

1. **System Characteristics**..... Unclassified
2. **Capabilities**..... Unclassified
3. **Functions** Unclassified

C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS

OPNAV Principal Official (OPO) Program Sponsor CNO (N780)

OPO Resource Sponsor..... CNO (N780)

Developing Agency (DA) PEO(T) (PMA272)

Training Agency (TA)..... CINCLANTFLT
CINCPACFLT
CNET
MCCDC

Training Support Agency (TSA)..... NAVAIRSYSCOM (PMA205)

Manpower and Personnel (M&P) Mission Sponsor CNO (N12)
NAVPERSCOM (PERS-4, PERS-404)

Director of Naval Training CNO (N795)

Marine Corps Force Structure MCCDC (C53)

D. SYSTEM DESCRIPTION

1. **Operational Uses.** Airborne Expendable Countermeasures are electronic warfare devices used for preemptive or terminal protection of aircraft from Radio Frequency (RF) or Infrared (IR) guided missile attack. Countermeasures devices are launched from sonobuoy pods,

LAU-10 Rocket Launcher Pods, LAU-138A/A Guided Missile Launcher Sets, and AN/ALE-29/A, AN/ALE-37/A, AN/ALE-39, AN/ALE-41, AN/ALE-43, or AN/ALE-47 Countermeasure Dispensers. Airborne Expendable Countermeasures may be deployed from both fixed wing and rotary wing aircraft.

2. Foreign Military Sales. Airborne Expendable Countermeasures release and sales to foreign countries is controlled by the policy defined by the Navy Technology Transfer Security Assistance Review Board (TTSARB) 97-09. No transfer or sales of Airborne Expendable Countermeasures are authorized except through the Navy International Program Office (IPO)

E. DEVELOPMENTAL TEST AND OPERATIONAL TEST. Developmental Tests (DT) and Operational Tests (OT) have been completed on all Airborne Expendable Countermeasures now in use except for the Advanced Strategic and Tactical Expendable (ASTE). The ASTE DT was completed in December 1999. ASTE OT began in July 2001 and will be completed in December 2002.

F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED. Certain specific Airborne Expendable Countermeasure devices will be replaced by attrition as shown in the following table:

EXISTING DEVICE	REPLACEMENT DEVICE
MK 46 MOD 1C Decoy Flare	MJU-32/D Decoy Flare
MJU-8/B Decoy Flare	MJU 8A/B Decoy Flare
MJU-8A/B Decoy Flare	MJU-38/B Decoy Flare
CCU-41/B	CCU-136/A
CCU-63/B	CCU-136/A
MJU-27/B	MJU-27A/B
SM-875/ALE	SM-875A/ALE

G. DESCRIPTION OF NEW DEVELOPMENT

1. Functional Description. Airborne Expendable Countermeasures are electronic warfare devices used for preemptive or terminal protection of aircraft from RF or IR guided missile attack. Countermeasures are grouped into threat categories of RF passive, RF active, or IR, and include decoy flares, chaff, and expendable RF jamming devices. Decoy flares act as decoys for diverting heat seeking missiles, chaff provides a passive jamming action against enemy radar, and expendable jamming devices transmit RF power to counter airborne and land based semi-active radar guided missiles.

a. Infrared Devices

(1) MK 46 MOD 1C Decoy Flare. The MK 46 MOD 1C Decoy Flare is magnesium fueled and provides self-protection against IR missiles for the A/UH-1, H-46, SH-60, C-130, and P-3C aircraft. This decoy is ejected from AN/ALE-39 or AN/ALE-47 Countermeasure Dispensers with either a CCU-63/B or CCU-136/A Impulse Cartridge. The MK46 MOD 1C Decoy Flare is being replaced by the MJU-32/B through attrition.

(2) MJU-8/B Decoy Flare. The MJU-8/B Decoy Flare was specifically designed to provide self-protection against IR missiles for Naval tactical aircraft. This decoy is ejected from AN/ALE-39 or AN/ALE-47 Countermeasures Dispensers with either a CCU-63/B or CCU-136/A Impulse Cartridge. The MJU-8/B was replaced by the MJU-8A/B as an approved operational decoy in 1988. Current inventory assets have been restricted to training use only until depleted.

(3) MJU-8A/B Decoy Flare. This decoy was fielded in 1988 as a product improvement to the MJU-8/B Decoy Flare. The MJU-8A/B provides self-protection against IR missiles for Naval tactical aircraft and H-53 Helicopters. This decoy is ejected from the AN/ALE-39 or AN/ALE-47 Countermeasure Dispenser with either a CCU-63/B or CCU-136/A Impulse Cartridge. The MJU-8A/B is being replaced by the MJU-38/B through attrition.

(4) MJU-22/B Decoy Flare. The MJU-22/B Decoy Flare is a product improvement to the MJU-8A/B Decoy Device fielded in 1988, and is similar with the exception of increased length. The MJU-22/B is used by the EA-6B Aircraft and provides a greater degree of protection against IR missiles than the MJU-8A/B Decoy. The MJU-22/B is ejected from the AN/ALE-39 D-47 Extended Magazine (Ten Inch) Countermeasures Dispenser using either a CCU-63/B or CCU-136/A Impulse Cartridge.

(5) MJU-27/B Decoy Flare. The MJU-27/B Decoy Device is dispensed from an AN/ALE-39 or AN/ALE-47 Dispenser using either a CCU-63/B or CCU-136/A Impulse Cartridge. The MJU-27/B is still in active inventory and is being replaced by the MJU-27A/B through attrition.

(6) Advanced Strategic and Tactical Expendable. The ASTE solution program is a multi-service project involving the efforts of the United States Air Force (USAF) and United States Navy (USN), with the USAF having cognizant responsibility for the expendable. ASTE is comprised of three IR decoy configurations. The flares are configured into two groups, the Fighter Group and the Covert Group. An MJU-47/B (Kinematic), and MJU-48/B (Companion) flare combination comprises the Fighter Group. The Covert Group is an arrangement of MJU-51/B flares. The MJU-47/B (Kinematic) is a self-propelled IR flare assembly consisting of an outer case, a flare housing with fins and nozzle component, and safe and interrupt assembly packaged in a MJU-10 form factor. The MJU-48/B (Companion) consists of an outer case, impulse cartridge cup, a mid-spacer with hydrogen and water vapor absorber, a special material payload, and an end cap. The sole purpose of the ASTE solution is to redirect incoming missile threats away from the aircraft. The ASTE solution is composed of Non-Developmental Items as well as a redesign effort for the housing and magazines. The redesign

modifies the flare casing size and changes the dispenser housing to accommodate the smaller flares. ASTE decoy flares are deployed, then actuated by BBU-35/B and BBU-36/B Impulse Cartridges. Either the Fighter Group or the Covert Group is dispensed from an AV-8B or F/A-18E/F aircraft utilizing the hybrid AN/ALE-47 Countermeasures Dispensing System (CMDS) under development by the F/A-18E/F program.

The ASTE solution is capable of deploying a Fighter Group and a Covert Group flare configuration. The group deployed is contingent upon the aircraft platform mission. ASTE is a flare development, not an avionics system. Current planning is for the F/A-18E/F and the AV-8B to be equipped with the ASTE solution.

Functionally, the ASTE solution will be launched using the hybrid AN/ALE-47 CMDS. When installed in the proper chamber, a corresponding impulse cartridge is installed in a cavity on the breech end of the outer case.

In the Fighter Group, once the impulse cartridge has been initiated from the firing pulse, a frangible membrane ruptures and gas pressurizes the outer case. The flare housing and end cap are ejected from the outer case by gas pressure. The slider interrupter prevents the hot gas from igniting the flare assembly prior to clearing the outer case. When clear of the outer case, the slider interrupter allows ignition of the flare assembly. Following ejection, the flare assembly is stabilized by fins, and, upon exposure to the air stream, causes the nose of the flare to point into the wind on a trajectory that approximately parallels that of the aircraft. The burning pellet produces hot gases that generate radiant IR energy (used to decoy the threat seeker), and thrust, which powers the flare on the desired trajectory.

The Covert Group flare functions when the impulse cartridge is initiated by the firing pulse, rupturing a frangible membrane, and the pressure inside the canister increases. A piston drives the special material payload the length of the canister. The force of the payload pushing on the closure disk breaks the seal and propels the payload into the atmosphere where the payload reacts with the air to emit IR radiation.

(7) MJU-49/B Decoy Device. The MJU-49/B Decoy Device is an IR decoy, providing aircraft survivability and protection against IR guided threats. It was designed to increase the survivability of helicopters and low and/or slow fixed wing aircraft. It is intended as an improvement over the performance of the MJU-27A/B Decoy when used either singly or in combination with other Infrared Countermeasures (IRCM) on helicopters and low and/or slow fixed wing aircraft. The MJU-49/B decoy device consists of a cylindrical cartridge approximately 1.4 inches in diameter and 5.8 inches long. The decoy is used in either the ASN/ALE-39 or the AN/ALE-47 CMDS, the payload being dispensed by either a CCU-63/B or CCU-136/A Impulse Cartridge. The IR payload produces significant amounts of energy to decoy threats that operate within the 2-5 micrometer wavelength portion of the spectrum. The decoy consists of an appropriate amount of a special type of IR material, which, when expelled from the sealed container, performs similarly to the MJU-27A/B decoy by generating heat through a pyrophoric process.

(8) MJU-47/B Kinematic Decoy Flare. Prototype development of the Kinematic Decoy Flare began in January 1989. Currently, a joint USN and USAF Program, ASTE is underway for commercial development and production of a comparable item. The MJU-48 and MJU-51 Decoy Flares are companion devices to the MJU-47/B.

(9) MJU-49/B Decoy Device. The MJU-49/B Decoy Device is an IR decoy, providing aircraft survivability and protection against IR guided threats. It was designed to increase the survivability of helicopters and low and/or slow fixed wing aircraft. It is intended as an improvement over the performance of the MJU-27A/B decoy when used either singly or in combination with other IRCM on helicopters and low and/or slow fixed wing aircraft. The MJU-49/B decoy device consists of a cylindrical cartridge approximately 1.4 inches in diameter and 5.8 inches long. The decoy is used in either the ASN/ALE-39 or the AN/ALE-47 CMDS, the payload being dispensed by either a CCU-63/B or CCU-136/A Impulse Cartridge. The IR payload produces significant amounts of energy to decoy threats that operate within the 2-5 micrometer wavelength portion of the spectrum. The decoy consists of an appropriate amount of a special type of IR material which, when expelled from the sealed container, performs similarly to the MJU-27A/B Decoy by generating heat through a pyrophoric process.

(10) MJU-35/B Decoy Flare. MJU-35/B Decoy Device is an extended length IR decoy product improvement to the MJU-27/B decoy. The decoy provides improved IR output and better protection for high IR signature aircraft. The MJU-35/B contains the same proprietary material as the MJU-27/B and is dimensionally the same except for its extended length. The MJU-35/B has a hazard classification of 4.2G (spontaneously combustible) versus a standard conventional IR decoy, which is 1.3G. The flare consists of a cylindrical aluminum case approximately 1.42 inches in diameter and 8.1 inches long (versus 5.8 inches for the MJU-27/B). The MJU-35/B is designed for the 8.1 inch length AN/ALE-47 CMDS. The only difference between the MJU-35/B and the MJU-27A/B is the length. Based on direction from the Office of the Secretary of Defense (OSD) and N78, all future IR countermeasures developments for all future aircraft will require joint Air Force and Navy utilization. Therefore, the MJU-35/B is being replaced with an MJU-7A/B form factor (1.0 x 2.0 x 8.1 inches).

(11) MJU-36/B Decoy Device. The MJU-36/B IR Decoy is an extended length IR decoy product improvement to the MJU-8A/B Decoy. The MJU-36/B provides improved safety features and takes advantage of the extended length available to provide better protection for high IR signature aircraft. The only difference between the MJU-38/B and the MJU-36/B is the length. The MJU-36/B is designed for the 8.1 inch length AN/ALE-47 CMDS. Again, based on direction from OSD and N78, all future IR countermeasure developments for all future aircraft will require joint Air Force and Navy utilization. Therefore, the F/A-18E/F the MJU-36/B is being replaced with an MJU-7A/B form factor, magnesium-based flare. The basic design and functional sequence of the MJU-36/B is similar to that of the MJU-32/B and MJU-38/B, using the sympathetically ignited, boreriding slider/initiator. The MJU-36/B was initially presented to the Weapon System Explosive Safety Review Board (WSESRB) on 23 May 1996. The WSESRB approved the system Safety Plan and provided criteria for development plan approval.

(12) MJU-52/B Decoy Device. The MJU-52/B (BOL-IR) Decoy is an IR decoy, providing enhanced aircraft survivability and protection against IR guided threats. It was designed to increase the survivability of aircraft capable of carrying the LAU-138A/A Guided Missile Launcher Set BOL Dispenser (or its derivatives). The dispenser is currently loaded with 160 chaff cassettes that are dispensed from the BOL by an electro-mechanical gear movement. It is intended that the MJU-52/B serve as an improvement over the existing BOL-ALE-39 combination of dispensers by allowing the aircraft commander greater flexibility in optimizing his countermeasure load-out to defeat specific mission threats. The decoy consists of a modified BOL chaff plastic cartridge that houses an IR payload. The IR payload produces a specific amount of IR energy in the 2-5 micrometerwavelength portion of the spectrum. The decoy consists of an appropriate amount of a special IR material, which when expelled from the sealed container, performs similarly to the MJU-27A/B Decoy Flare by generating heat through a pyrophoric process. The MJU-52/B utilizes the same flatpacks as the BOL chaff to facilitate operational use of the BOL dispenser. The difference between the RF and IR packages revolves around the different payload of the decoy devices. The BOL-IR payload is pyrophoric metal (special material), which must be contained within an air-tight, sealed package. The operation of the dispenser and the release of the package is the same as with BOL chaff. The BOL-IR payload packet seal contains an integral tear strip attached to the encapsulating flat pack. When released into the air stream, the flat pack acts as a parachute due to the relative drag between the payload packet and the flat pack. This drag force tears open the seal of the payload packet and the pyrophoric payload is released to the air stream, dispensing aerodynamically in the same manner as the chaff.

b. Radio Frequency Devices

(1) AN/ALQ-190(V)1 Chaff Countermeasures Set. The AN/ALQ-190(V)1 is usable as a decoy target for hostile missiles, a confusion target against hostile search radars, target masking coverage, or corridor protection screening to any radar operating in the frequency bands of the AN/ALQ-190(V)1. This countermeasure set is an A-size sonobuoy chaff cartridge designed to be deployed from the SH-3 and SH-60 rotary wing aircraft, and S-3B and P-3C fixed wing aircraft using the A-size sonobuoy launch system.

(2) RR-129/AL Chaff Countermeasure (Operational). The RR-129/AL Chaff Countermeasure (Operational) is a passive countermeasure that provides self-protection against RF search track radars, RF guided missiles, and anti-aircraft batteries. This device can be used on all Naval aircraft. The RR-129/AL is being replaced by the RR-129A/AL through attrition.

(3) RR-144/AL Chaff Countermeasure (Training). The RR-144/AL Chaff Countermeasure (Training) Cartridge is used for training against I-band radars. These devices are used on all Naval aircraft. Chaff is dispensed from the AN/ALE-29A, AN/ALE-37A, AN/ALE-39, or AN/ALE-47 Dispenser Sets. The RR-144/AL is being replaced by the RR-144A/AL through attrition.

(4) RR-171 and RR-172 Chaff Rolls. The RR-171 and RR-172 Chaff Rolls are used with the AN/ALE-41 Chaff Dispenser Pod. The chaff countermeasure is

prepackaged (wrapped between mylar) and the only difference between the RR-171 and RR-172 is the resonant frequency.

(5) RR-179/AL Chaff Roving Bundle. The RR-179/AL Chaff Roving Bundle is used with the AN/ALE-43 Chaff Dispenser Pod. The AN/ALE-43 is equipped with a cutter head and the desired frequency(s) can be dialed in prior to flight. The AN/ALE-43 is tentatively scheduled as the replacement for the AN/ALE-41 system.

(6) RR-181/AL Chaff Countermeasure. The RR-181/AL Chaff Countermeasure is a chaff payload associated with the AN/ALQ-190(V)1 Chaff Countermeasure Set. It is launched from a LAU-133/A Container on P-3C, S-3B, SH-60, and EA-6B aircraft using a JAU-22/B Cartridge. RR-181/AL can be used as a decoy target for hostile missiles, a confusion target for unfriendly search radars, or can provide target coverage (masking) and corridor protection screening.

(7) RR-182/AL Zuni Chaff Warhead. The RR-182/AL Zuni Chaff Warhead is explosively dispersed from a LAU-10 Rocket Launcher Pod. The RR-182/AL can be launched from P-3C, S-3B, SH-60, and F/A-18E/F aircraft. The inventory objective has been met and the RR-182/AL is no longer in production.

(8) RR-184/AL Chaff Cartridge (Tactical). The RR-184/AL Chaff Cartridge (Tactical) is a passive countermeasure that provides self protection against RF search and track radars, and RF guided missiles and anti-aircraft batteries. The RR-184/AL is a unique chaff countermeasure used with the LAU-138/A Guided Missile Launcher Set. A total of 160 chaff packets are loaded into each LAU-138/A Dispenser. Currently, the RR-184/AL is being procured in support of F-14 Aircraft.

(9) RR-189/AL Chaff Cartridge (Training). The RR-189/AL Chaff Cartridge (Training) is a training countermeasure (I band only) used with the LAU-138A/A Guided Missile Launcher Set. Currently the RR-189/AL is used in support of F-14 Aircraft.

c. Radio Frequency Active Countermeasures

(1) AM 6988 Primed Oscillator Expendable Transponder. The AM 6988 Primed Oscillator Expendable Transponder (POET) provides terminal self-defense against a specific threat. POET is no longer in production and will be used as a Training Device once the RT-1489/ALE Generic Expendable Decoy (GEN-X) inventory requirement is satisfied. The POET is ejected from the AN/ALE-39 or AN/ALE-47 Dispenser with a CCU-63/B or CCU-136/A Impulse Cartridge.

(2) RT-1489/ALE Generic Expendable Decoy. The GEN-X Decoy is a small, one shot, expendable terminal, RF threat countermeasure that receives an RF signal from a recognized threat, such as airborne or land-based semi-active radar guided missiles, then transmits RF power to counter that threat. The GEN-X Decoy can be launched from the AN/ALE-39 or AN/ALE-47 Countermeasure Dispensers using a CCU-63/B or CCU-136/A Impulse Cartridge. GEN-X has been designed and cleared for flight on all Navy tactical aircraft.

d. Impulse Cartridges

(1) CCU-41/B Impulse Cartridge. The CCU-41/B Impulse Cartridge provides a power source for the ejection of chaff countermeasures.

(2) CCU-63/B Impulse Cartridge. The CCU-63/B Impulse Cartridge provides a power source for the ejection of IR countermeasures, POET, and GEN-X.

(3) CCU-136/A Impulse Cartridge. The CCU-136/A Impulse Cartridge provides a power source for the ejection of countermeasures in the AN/ALE-47 and AN/ALE-39 dispensers.

(4) CCU-136A/A Hazards of Electromagnetic Radiation To Ordnance Safe Impulse Cartridge. In recognition of the safety problems associated with Hazards of Electromagnetic Radiation to Ordnance (HERO), Program Manager, Air (PMA) 272 tasked the Naval Surface Warfare Center (NSWC) Indian Head with the development of a HERO-safe CCU-136/A Impulse Cartridge. The performance requirement of this impulse cartridge was that it shall be HERO-safe in all potential operating, handling, transporting, and storage conditions, regardless of the intensity of the defined electromagnetic radiation environment aboard ship. This Product Improvement Program (PIP) was built upon the basic design of the CCU-136/A, and is designated as the CCU-136A/A. This impulse cartridge has the same form, fit, function characteristics of the CCU-136/A Impulse Cartridge and is applicable to AN/ALE-39, AN/ALE-47, and AN/ALE-50 CMDS. Initial production of the CCU-136A/A began in Fiscal Year (FY) 99, with Fleet introduction and availability in FY00.

(5) JAU-22/B Impulse Cartridge. The JAU-22/B Impulse Cartridge provides a power source for ejection of countermeasures in the LAU-133/A Container.

e. Dispensers

(1) AN/ALE-29A Countermeasure Dispenser Set. The AN/ALE-29A Countermeasure Dispensing Set is an internally mounted dispensing system for use with self-protection countermeasure decoys. Flexibility is provided in selection of system components to permit installation in a large number of different aircraft. The AN/ALE-29A Countermeasure Dispensing Set interfaces with and accepts command signals from the different aircraft cockpit controllers to permit dispensing countermeasures decoys at selectable intervals and quantities.

(2) AN/ALE-37A Chaff Dispensing Pod. The AN/ALE-37A is an externally mounted lightweight unit designed for use on aircraft operating from land or carrier bases. The AN/ALE-37A contains two lightweight chaff modules and has a capacity of 240 individual chaff loads. The AN/ALE-37A is designed for quick reloading using two spare loaded modules with squib boards installed. The chaff is contained in cylindrical shaped containers that are inserted into the pod modules. Each module is loaded with 120 chaff containers and each container is fired by a separate squib. The cockpit control indicator or pod control indicator is used to select the burst rate and firing sequence. All chaff can be dispensed

in 30 seconds (at the “¼-second firing in doubles” setting) or spread over eight minutes (at the “two second firing in singles” setting).

(3) AN/ALE-39 Dispenser. The AN/ALE-39 Dispenser has the capability of dispensing up to 60 chaff, flare, or jammer payloads. Payloads may be all one type or a combination of types, but all payloads loaded in each dispenser section must be the same type. All three payload types can be dispensed in either single (manual) or programmed (automatic) mode, independently or concurrently. The payloads can be ejected individually or in preset patterns. The dispenser has the capacity for 30 units in each dispenser.

(4) AN/ALE-41 Chaff Dispenser (Pod). The AN/ALE-41 is a roll type dispenser for chaff corridor seeding and has dipoles rolled between two layers of mylar film into a sandwich approximately 0.2 inches thick, twelve inches wide, and 100 feet long. The rolls are unwound in a ram air pressurized external store with the two mylar films separated over a slot in a tube extending out the aft end of the store. The released dipoles are instantly drawn into the tube and continuously ejected from the tube into the boundary layer. No pyrotechnics are involved.

(5) AN/ALE-43(V) Chaff Dispenser (Pod). The AN/ALE-43(V) is a bulk chaff dispenser that cuts chaff dipoles from fiberglass roving. This dispenser is a pod configuration and has an eight package capacity. The cutting mechanism contains a rubber platen roller and three cutter rollers, which yield three, in-flight selectable combinations of dipole lengths. The chaff is dispensed when the rovings are drawn simultaneously from each roving package, cut to length, and discharged into the air stream. No pyrotechnics are involved.

(6) AN/ALE-47 Dispenser. The AN/ALE-47 Dispenser is an upgrade to and eventual replacement for the AN/ALE-39 Dispenser. The AN/ALE-47 has the capability of dispensing flares, chaff, non-programmable expendable jammers, and programmable jammers. The system consists of a Cockpit Control Unit, Programmer, Sequencer Switch, and Dispenser Assembly, which will program and eject specific expendable countermeasures in response to various threats.

2. Physical Description

IR COUNTERMEASURE	LENGTH (Inches)	DIAMETER (Inches)	BASE FLANGE (Inches)
MK 46 MOD 1C Decoy Flare	5.80	1.42	1.495
MJU-8/B Decoy Flare	5.80	1.42	1.495
MJU-8A/B Decoy Flare	5.80	1.42	1.495
MJU-22/B Decoy Flare	10.50	1.42	1.495
MJU-27/B Decoy Flare	5.80	1.42	1.495

IR COUNTERMEASURE	LENGTH (Inches)	DIAMETER (Inches)	BASE FLANGE (Inches)
MJU-27A/B Decoy Device	5.80	1.42	1.495
MJU-32/B Decoy Flare	5.80	1.42	1.495
MJU-35/B Decoy Flare	8.10	1.42	1.495
MJU-36/B Decoy Flare	8.10	1.42	1.495
MJU-38/B Decoy Flare	5.80	1.42	1.495
SM-875/ALE Simulator Flare	5.80	1.42	1.495

RF COUNTERMEASURES	LENGTH (Inches)	DIAMETER (Inches)	WEIGHT
AN/ALQ-190(V) Chaff Countermeasure Set	39.70	5.40	34 lbs.
RR-129/AL Chaff Cartridge	5.81	1.42	5.8 oz.
RR-144/AL Chaff Cartridge	5.81	1.42	6.0 oz.
RR-171, RR-172 Chaff Rolls	NA	6.32	46 lbs.
RR-179/AL Roving Chaff Bundle	12.25	10.44	40 lbs.
RR-181/AL Chaff Cartridge	36.00	4.90	32 lbs.
RR-182/AL Zuni Chaff Warhead	32.25	5.13	47 lbs.

RF COUNTERMEASURES	LENGTH (Inches)	WIDTH (Inches)	HEIGHT (Inches)	WEIGHT (Grams)
RR-184/AL LAU-138A/A Chaff Cartridge (Tactical)	0.38	2.75	3.16	38.6
RR-189/AL LAU-138/A/A Chaff Cartridge (Training)	0.38	2.75	3.16	38.6

RF ACTIVE COUNTERMEASURE	LENGTH (Inches)	DIAMETER (Inches)	WEIGHT (Pounds)
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RF ACTIVE COUNTERMEASURE	LENGTH (Inches)	DIAMETER (Inches)	WEIGHT (Pounds)
AM-6988/A Primed Oscillator Expendable Transponder	5.83	1.43	1.10
RT-1489 GEN-X	5.80	1.35	1.10

IMPULSE CARTRIDGES	LENGTH (Inches)	DIAMETER (Inches)	WEIGHT
CCI-41/B	0.77	0.63	9.0 g
CCU-63/B	0.73	0.63	9.0 g
CCU-136/A	0.77	0.63	9.0 g
JAU-22/B	3.40	2.00	0.77 lbs.

CHAFF DISPENSERS	LENGTH (Inches)	DIAMETER (Inches)	HEIGHT (Inches)
AN/ALE-29A	9.75	8.25	6.35
AN/ALE-37A	86.90	7.75	5.83
AN/ALE-39	8.50	6.70	10.60
AN/ALE-41	131.60	19.60	5.25
AN/ALE-43	166.20	19.58	19.20
AN/ALE-47	9.27	7.75	5.83

3. New Development Introduction

a. MJU-32/B Decoy Flare. A PIP associated with the MK 46 MOD 1C was initiated to improve the integrity of the outer case and provide a safer ignition system. The Engineering Change Proposal (ECP) was signed in June 1996 and production began in fourth quarter FY96. The MK 46 MOD 1C will be replaced through attrition by the MJU-32/B.

b. MJU-38/B Decoy Flare. A PIP was initiated on the MJU-8/A Decoy Flare to reduce production costs and enhance safety. The grain configuration was changed for more efficient production while maintaining the existing IR time and intensity profile. The outer case, end cap, and igniter were all modified to enhance safety. The ECP was signed in June 1995 and procurement began in FY96. The MJU-8/A Decoy Flare will be replaced through attrition by the MJU-38/B Decoy Flare.

c. SM-875A/ALE Flare Simulator. The SM-875/ALE Flare Simulator was reconfigured to reduce the number of internal components and enhance flare ignition, and was increased in length to make it the same as all other decoys for safer visual inspection by ordnance personnel during turnaround operations. This new device (SM-875A/ALE) was procured in FY98 for replacement of the current SM-875/ALE Flare Simulator.

d. MJU-35/B Decoy Flare. The MJU-35/B Decoy Flare is the nomenclature assigned to a product improvement associated with the MJU-27/B Decoy Flare. The ECP provides for additional payload material to increase the IR output and to allow compatibility with an 8.1 inch dispenser being fitted for the F/A-18E/F Aircraft. Procurement began in FY98.

e. MJU-36/B Decoy Flare. A product improvement associated with the MJU-8A/B was initiated to provide a higher intensity decoy for the F/A-18E/F Aircraft. The flare uses conventional composition and is 8.1 inches long and 1.42 inches in diameter. Qualification tests were initiated in fourth quarter FY95 and were completed in second quarter FY96. Production began the third quarter FY98.

f. MJU-27A/B Decoy Device. The MJU-27A/B Decoy Device is a PIP to the MJU-27/B. This decoy is dispensed from either an AN/ALE-39 or AN/ALE-47 Dispenser using a CCU-63/B or CCU-136/A Impulse Cartridge. The MJU-27A/B is currently being procured and will replace the MJU-27/B through attrition.

4. Significant Interfaces. Airborne Expendable Countermeasures are launched from AN/ALE-29A, AN/ALE-37A, AN/ALE-39, AN/ALE-41, AN/ALE-43, and AN/ALE-47 Countermeasure Dispensers. With the exception of the LAU-10 and LAU-138/BOL, dispensing is initiated by the firing of an impulse cartridge. These devices are usable with fixed and rotary wing aircraft capable of employing Airborne Expendable Countermeasures. The following shows individual countermeasure devices and associated dispensers, Naval Ammunition Logistic Codes (NALC), impulse cartridges, and aircraft applications.

INTERFACE MATRIX				
COUNTERMEASURE	DISPENSER	NALC	IMPULSE CARTRIDGE	AIRCRAFT APPLICATION
Infrared:				
MK46 MOD 1C	AN/ALE-29A AN/ALE-37A AN/ALE-39 AN/ALE-47	LW60	CCU-63/B, CCU-136/A	A/UH-1, H-46, SH-60, C-130, P-3C
MJU-8/B	AN/ALE-29A AN/ALE-37A AN/ALE-39 AN/ALE-47	LW62	CCU-63/B, CCU-136/A	Training Asset For Tactical Aircraft

INTERFACE MATRIX				
COUNTERMEASURE	DISPENSER	NALC	IMPULSE CARTRIDGE	AIRCRAFT APPLICATION
MJU-8A/B	AN/ALE-29A AN/ALE-37A AN/ALE-39 AN/ALE-47	2W89	CCU-63/B, CCU-136/A	Training Asset for Tactical Aircraft and H-53
MJU-22/B	AN/ALE-39	LW16	CCU-63/B, CCU-136/A	EA-6B
MJU-27/B	AN/ALE-29A AN/ALE-37A AN/ALE-39 AN/ALE-47	2W11	CCU-63/B, CCU-136/A	H-46, SH-60, AV-8B, F/A-18D/E/F
MJU-32/B	AN/ALE-39	LA01	CCU-63/B CCU-136/A	A/UH-1, H-46, H-53, SH-60, P-3C, C-130
MJU-38/B	AN/ALE-39	LA02	CCU-63/B CCU-136/A	AV-8B, EA-6B, F-14A/B/D, F/A-18D/E/F, S-3B
SM-875/ALE	AN/ALE-29A AN/ALE-37A AN/ALE-39 AN/ALE-47	L540	CCU-63/B, CCU-136/A, CCU-41/B	All Naval Aircraft
Radio Frequency:				
AN/ALQ-190(V)1	LAU-133	4W60	JAU-1/B, JAU-22/B	SH-60, P-3C, S-3B
RR-129/AL	AN/ALE-29A AN/ALE-37A AN/ALE-39 AN/ALE-47	NW20	CCU-41/B CCU-136/A	All Naval Aircraft
RR-129A/AL	AN/ALE-29A AN/ALE-37A AN/ALE-39 AN/ALE-47	DWCF	CCU-41/B CCU-136/A	All Naval Aircraft

INTERFACE MATRIX				
COUNTERMEASURE	DISPENSER	NALC	IMPULSE CARTRIDGE	AIRCRAFT APPLICATION
RR-144/AL	AN/ALE-29A AN/ALE-37A AN/ALE-39 AN/ALE-47	NW-33	CCU-41/B, CCU-136/A	All Naval Aircraft
RR-144A/AL	AN/ALE-29A AN/ALE-37A AN/ALE-39 AN/ALE-47	DWCB	CCU-41/B CCU-136/A	All Naval Aircraft
RR-181/AL	LAU-133	4W60	JAU-22/B	P-3C, S-3B, SH-60, EA-6B
RR-182/AL	LAU-10	HW96	NA	SH-60, P-3C, S-3B, F/A-18E/F
RR-184/AL	LAU-138A/A	CWCK	NA	F-14A/B/D
RR-189/AL	LAU-138A/A	CWCM	NA	F-14A/B/D
Radio Frequency Active:				
AM-6988	AN/ALE-39 AN/ALE-47	MW94	CCU-63/B, CCU-136/A	Tactical Aircraft
RT-1489/ALE	AN/ALE-39 AN/ALE-47	CWCG	CCU-63/B, CCU-136/A	Tactical Aircraft

5. New Features, Configurations, or Material

a. MJU-32/B Decoy Flare. The MJU-32/B Decoy Flare has an improved outer case integrity and safer ignition system.

b. MJU-38/B Decoy Flare. The MJU-38/B grain configuration was changed for easier productivity while maintaining the existing IR time and intensity profile. The outer case, end cap, and igniter were modified to enhance safety.

c. SM-875/ALE Flare Simulator. The SM-875/ALE Flare Simulator was reconfigured to reduce the number of internal components and enhance flare ignition by modification of the flare ignition material.

H. CONCEPTS

1. Operational Concept. Airborne Expendable Countermeasures are deployed from aircraft by aircrews in various tactical and training applications to protect aircraft from RF or IR guided missile attack.

2. Maintenance Concept. Airborne Expendable Countermeasures and the associated impulse cartridges are, by definition, expendable, having no preventive or corrective maintenance procedures or requirements. However, at the organizational and intermediate levels of maintenance there are requirements for inspection prior to use, loading, handling, and repackaging. Maintenance tasks are identified and assigned by the Naval Ordnance Maintenance Management Program (NOMMP) OPNAVINST 8000.16 Volume 2 Section 2. Procedures and inspection criteria for particular configurations are added to appropriate Weapons Assembly Manuals prior to fleet introduction of decoys and devices.

a. Organizational. Organizational level maintenance on countermeasure devices involves inspecting, loading, arming, de-arming, downloading, and reporting discrepancies. Organizational level Work Center 230 is manned by Navy Aviation Ordnanceman (AO) personnel with NECs 8319, 8819, 8332, 8335, 8835 8342, 8842, 8345, 8845, 8347, 8847, 8377, 8378, or by Marine Corps personnel with Military Occupational Specialties (MOS) 6511 or 6531. AO personnel are not currently assigned to SH-60B LAMPS Detachments. In LAMPS Detachments all aviation maintenance ratings holding NEC 8378 may be required to perform Airborne Expendable Countermeasures organizational level maintenance tasks.

(1) Preventive Maintenance. Preflight and postflight inspections consist of performing visual examination of device cases for dents, cracks, corrosion, illegible or incorrect markings, compliance with pertinent Notices of Ammunition Reclassifications, and technical directives. Any devices failing these inspections are forwarded to the intermediate maintenance level for action.

(2) Corrective Maintenance. There are no corrective maintenance actions performed on Airborne Expendable Countermeasures at the organizational maintenance level.

b. Intermediate. There are no corrective maintenance actions performed on Airborne Expendable Countermeasures at the intermediate maintenance level. Intermediate Maintenance Activities' Weapons Departments (shipboard, Naval Air Station, and Marine Aviation Logistics Squadron) receive expendable countermeasure devices from the appropriate issuing activity. Routine upkeep maintenance actions performed by Navy AO personnel with NEC 6802 and Marine Corps personnel with MOS 6541 at intermediate level activities include:

- Receipt, handling, storage, and issue
- Packaging and unpackaging
- Visual inspection for external damage to case
- Inspection for illegible or incorrect markings
- Minor cleaning and corrosion procedures

- Compliance with pertinent technical directives

Devices requiring maintenance that exceeds the capabilities of the fleet intermediate level will have the condition codes reclassified and disposed of in accordance with existing directives.

c. Depot. NA

d. Interim Maintenance. Interim maintenance is not required since the Airborne Expendable Countermeasures are fielded with full Navy organic support available.

e. Life Cycle Maintenance Plan. Maintenance Plans are generated in support of Airborne Expendable Countermeasures. Shelf-life for Airborne Expendable Countermeasures differs depending upon the device. Chaff and countermeasure devices have an indefinite shelf-life, while RF active devices and Impulse Cartridges have a five-year and nine-year shelf-life respectively.

3. Manning Concept. Manning concepts for Airborne Expendable Countermeasures are as follows:

a. Aircrew. Airborne Expendable Countermeasures are operated by aircraft pilots and countermeasure system operators. Airborne Expendable Countermeasure systems do not drive any change in aircrew manpower requirements.

b. Maintenance. Manpower requirements for Airborne Expendable Countermeasures are compatible with existing skill levels, therefore no new NECs or MOSs will be required. Airborne Expendable Countermeasures do not alter current manpower requirements at organizational, intermediate, or depot level maintenance activities.

4. Training Concept. The Airborne Expendable Countermeasure Training Program consists of training for maintenance personnel only. No new training courses are required at this time. An Airborne Countermeasures and Associated Impulse Cartridges safety lesson has been developed and will be incorporated into certain existing courses.

a. Initial Training. No initial training for Airborne Expendable Countermeasures is required.

b. Follow-on Training. An Airborne Countermeasures and Associated Impulse Cartridges safety lesson has been developed and will be incorporated into the following courses in June 2001, with no impact on current course length or student throughput:

COURSE NUMBER	COURSE TITLE	TRACK NUMBER
C-646-9962	F-14A/B Armament Systems Initial Organizational Maintenance	D-646-1647

COURSE NUMBER	COURSE TITLE	TRACK NUMBER
C-646-4109	Air Launched Weapons Ordnance General	NA
C-646-9571	P-3C Armament/Ordnance Systems Initial Organizational Maintenance	D-646-1042
C-646-3105	Aviation Ordnance Intermediate Maintenance Technician	M-646-7026
C-646-3106	Rotary Wing Armament Organizational Level Differences	NA
C-646-9361	H-1 Armament Repair Integrated Organizational Maintenance	M-646-2044
C-646-4108	Air Launched Weapons Supervisor	D-646-7007
C-102-9404	SH-3H Communications/Navigation Systems Initial Organizational Maintenance	D-102-0521
Q-4E-0010	Aviation Ordnance Officer Career Progression Level 1	NA
E-646-0640	F/A-18 Conventional Weapons	D/E-646-0653
C-646-3680	S-3B Conventional Weapons Release Checks and Loading	NA
D-646-1644	F-14A/B Conventional Weapons Loading Team	NA
D-646-1646	F-14D Conventional Weapons Release Checks and Loading	NA
C-646-9409	H-60 Conventional Weapons Loading Course	NA
D-646-1143	P-3C Conventional Weapons Loading and Release and Control	NA
E-646-1842	EA-6B Aircraft AGM-88 (HARM) Loading and System	NA
A-431-0012	Explosive Ordnance Phase 2	NA

c. Student Profiles

SKILL IDENTIFIER	PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS
MOS 6531	<ul style="list-style-type: none"> ◦ C-646-2011, Aviation Ordnanceman Class A1 ◦ C-646-2012, Aviation Ordnanceman Navy Difference Training

SKILL IDENTIFIER	PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS
MOS 6541	<ul style="list-style-type: none"> ◦ C-646-2011, Aviation Ordnanceman Class A1 ◦ C-646-2012, Aviation Ordnanceman Navy Difference Training
AO	<ul style="list-style-type: none"> ◦ C-646-2011, Aviation Ordnanceman Class A1 ◦ C-646-2012, Aviation Ordnanceman Navy Difference Training ◦ C-646-2013, Aviation Ordnanceman Ships Company Strand Class A1

d. Training Pipelines. There are no new training pipelines or tracks associated with Airborne Expendable Countermeasures.

I. ONBOARD (IN-SERVICE) TRAINING

1. Proficiency or Other Training Organic to the New Development. Airborne Expendable Countermeasures proficiency training is conducted during loading and downloading drills, and through On-the-Job Training.

a. Maintenance Training Improvement Program. Current planning is to adopt the Aviation Maintenance Training Continuum System (AMTCS) concepts to replace Maintenance Training Improvement Program (MTIP) and is scheduled to begin full implementation for fleet deployment in FY02.

b. Aviation Maintenance Training Continuum System. AMTCS will provide career path training to the Sailor or Marine from their initial service entry to the end of their military career. AMTCS concepts will provide an integrated system that will satisfy the training and administrative requirements of both the individual and the organization. The benefits will be manifested in the increased effectiveness of the technicians and the increased efficiencies of the management of the training business process. Where appropriate, capitalizing on technological advances and integrating systems and processes can provide the right amount of training at the right time, thus meeting the Chief of Naval Operations (CNO)'s mandated "just-in-time" training approach.

Technology investments enable the development of several state-of-the-art training and administrative tools: Interactive Multimedia Instruction (IMI) for the technicians in the Fleet in the form of Interactive Courseware (ICW) with Computer Managed Instruction (CMI) and Computer Aided Instruction (CAI) for the schoolhouse.

Included in the AMTCS development effort is the Aviation Maintenance Training Continuum System - Software Module, which provides testing [Test and Evaluation], recording [Electronic Certification Qualification Records] and a Feedback system. The core functionality of these AMTCS tools are based and designed around the actual maintenance-related tasks the

technicians perform, and the tasks are stored and maintained in a Master Task List data bank. These tools are procured and fielded with appropriate Commercial-Off-The-Shelf (COTS) hardware and software, i.e., Fleet Training Devices - Laptops, PCs, Electronic Classrooms, Learning Resource Centers (LRC), operating software, and network software and hardware.

Upon receipt of direction from OPNAV (N789H), AMTCS concepts are to be implemented and the new tools integrated into the daily training environment of all participating aviation activities and supporting elements. AMTCS will serve as the standard training system for aviation maintenance training within the Navy and Marine Corps, and is planned to supersede the existing MTIP and Maintenance Training Management and Evaluation Program (MATMEP) programs.

2. Personnel Qualification Standards. NA

3. Other Onboard or In-service Training Packages. Marine Corps onboard training is based on the current series of MCO P4790.12, Individual Training Standards System and Maintenance Training MATMEP. This program is designed to meet Marine Corps, as well as Navy OPNAVINST 4790.2 series, maintenance training requirements. It is a performance-based, standardized, level-progressive, training management and evaluation program which can be documented. It identifies and prioritizes task inventories by MOS through a front-end analysis process that identifies task, skill, and knowledge requirements of each MOS. MTIP questions coupled to MATMEP tasks will help identify training deficiencies that can be enhanced with refresher training. (MATMEP is planned to be replaced by AMTCS.)

J. LOGISTICS SUPPORT

1. Manufacturer and Contract Numbers. Airborne Expendable Countermeasures are competitively procured from a variety of manufacturers. For a complete list of contractors, contact Program Executive Officer (Tactical Aircraft Programs) (PEO(T)) PMA272J3.

2. Program Documentation

NOMENCLATURE	PLAN NUMBER	DATE
Flare, Decoy, MK 46 MOD 1C	ARMP - 0118	Apr 88
Flare, Decoy, MJU-8A/B	ARMP - 0124	Apr 92
Flare, Decoy, MJU-8/B	ARMP - 0120	Apr 88
Flare, Decoy, MJU-22/B	ARMP - 0121	Apr 92
Flare, Decoy, MJU-27/B	ARMP - 0403	Aug 94
Flare, Decoy, MJU-32/B	ARMP - 0406	Aug 95

NOMENCLATURE	PLAN NUMBER	DATE
Flare, Decoy, MJU-38/B	ARMP - 0405	Aug 95
Decoy, XPNDR, RT1489/ALE	ARMP - 0232	Oct 95
Simulator, Flare, SM-875/ALE	ARMP - 0166	Apr 92
Decoy, Transponder, Countermeasures, RT-1489/ALE	ARM - 101 Revision E	Aug 96
Integrated Logistic Support Plan (ILSP) for D-46/ALE39 Dispenser, Countermeasures Chaff (RR-184/RR189)	ARM-ILSP-203	Aug 97
ILSP for Generic Expendable (GEN-X)	ARM-ILSP 101	Aug 96
IR Expendable Countermeasures	CM-ILSP-346	Sep 95
Chaff Countermeasures Set, AN/ALQ-190(V)1	ARM - 079 Revision B	Jan 90

3. Technical Data Plan. The responsibility for quality assurance of technical manuals resides at the Naval Air Technical Data and Engineering Service Command and is exercised through their Quality Assurance department Code 04. Routine technical manual changes are issued through normal update procedures.

4. Test Sets, Tools, and Test Equipment. NA

5. Repair Parts. NA

6. Human Systems Integration. NA

K. SCHEDULES. Airborne Expendable Countermeasures have been delivered to all user activities.

1. Installation and Delivery Schedules. Airborne Expendable Countermeasures are already in the fleet.

2. Ready For Operational Use Schedule. All Airborne Expendable Countermeasures are considered Ready For Operational Use upon installation on the aircraft.

3. Time Required to Install at Operational Sites. Airborne Expendable Countermeasures are installed in aircraft by weapons loading team-members in a matter of minutes.

4. Foreign Military Sales and Other Source Delivery Schedule. Information regarding Foreign Military Sales of Airborne Expendable Countermeasures should be directed to PEO(T) PMA272J3.

5. Training Device and Technical Training Equipment Delivery Schedule. Technical Training Equipment (TTE) consisting of an Airborne Countermeasures Display Case and a Chaff Countermeasures Set, Inert, AN/ALQ-190(V)1, as shown in element IV.A.1 of this NTSP, has been delivered to various training activities and is currently onboard. This TTE supports the Countermeasures and Associated Impulse Cartridges safety lesson being incorporated in specific ordnance training courses. No Training Devices are required for this lesson.

TECHNICAL TRAINING EQUIPMENT DELIVERY SCHEDULE	
EQUIPMENT	ACTIVITY / LOCATION
Airborne Countermeasure Display Case	Maintenance Training Unit (MTU) 1007 Naval Air Maintenance Training Unit (NAMTRAU) Oceana, Virginia
Airborne Countermeasure Display Case Inert Chaff Countermeasure Set, AN/ALQ-190(V)1	MTU 4030 Naval Air Maintenance Training Group Detachment (NAMTRAGRU DET) Mayport, Florida
Airborne Countermeasure Display Case	MTU 1012 NAMTRAU Whidbey Island, Washington
Airborne Countermeasure Display Case	FREST VMAT-203, MCAS Cherry Point, North Carolina
Airborne Countermeasure Display Case	FREST VMAT-303, MCAS Camp Pendleton, California
Airborne Countermeasure Display Case Inert Chaff Countermeasure Set, AN/ALQ-190(V)1	MTU 1005 NAMTRAU Jacksonville, Florida
Airborne Countermeasure Display Case	MTU 4032 NAMTRAU Norfolk, Virginia
Airborne Countermeasure Display Case Inert Chaff Countermeasure Set, AN/ALQ-190(V)1	MTU 4033 NAMTRAU North Island, California
Airborne Countermeasure Display Case	Aviation Ordnance Officer Career Progression, NAS Pensacola, Florida
Airborne Countermeasure Display Case	Strike Fighter Weapons School, NAS Lemoore, California
Airborne Countermeasure Display Case Inert Chaff Countermeasure Set, AN/ALQ-190(V)	Strike Fighter Weapons School, NAS Oceana, Virginia

TECHNICAL TRAINING EQUIPMENT DELIVERY SCHEDULE	
EQUIPMENT	ACTIVITY / LOCATION
Airborne Countermeasure Display Case	Strike Weapon Attack Training School Atlantic, NAS Oceana, Virginia
Airborne Countermeasure Display Case	Electronic Combat Weapons School, NAS Whidbey Island, Washington
Airborne Countermeasure Display Case	NAVSCOLEOD, NSWC Indian Head, Maryland

L. GOVERNMENT FURNISHED EQUIPMENT AND CONTRACTOR FURNISHED EQUIPMENT TRAINING REQUIREMENTS. NA

M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
Pyrotechnic Screening, Marking, and Countermeasure Devices	NAVAIR 11-15-7 / NAVSEA SW050-AB-MMA-10	NSWC Crane Code 40	Updated Oct 96
Decoy Flare Descriptive and Operational Instructions	NAVAIR 11-15-4 (C)	NSWC Crane Code 40	Updated Oct 97
Ordnance Data for Toxic Hazards Associated with Pyrotechnic Items	NAVAIR 11-5-8 / NAVSEA SW050-AC-ORD-010	NSWC Crane Code 40	Updated Sep 96
Expendable Countermeasure Directory	NAVAIR 16-1-539 (S)	PMA272J3	Updated Sep 94
Airborne Weapons Assembly Manual Pyrotechnics	NAVAIR 11-140-7	PMA272J3	Updated Dec 97
Ship Weapons Installation Manual Airborne Pyrotechnics	NAVAIR 11-120-20	NSWC Crane Code 40	Draft 1999

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
Technical Manual for Cartridge and Propellant Actuated Devices	NAVAIR 11-100-1.1-CD	NSWC Indian Head Code 5320G	1 Mar 99
Airborne Weapons/Stores Publications Index	NAVAIR 01-700	NAWC China Lake Code C26303	Updated Apr 00
Launcher Test Set, Guided Missile LAU-138/A/A	NAVAIR 11-75-84	PMA272-J3	Updated Jul 97
Hazards of Electromagnetic Radiation to Ordnance (HERO)	NAVAIR 16-1-529 / NAVSEA OP3565	NAVSEA Code 665	Updated Jan 92
Test Set LAU-138	NAVAIR 16-30-ULM 5-1	PMA272J3	Updated Apr 96
Countermeasures Chaff Dispensing Set, AN/ALE-29A	NAVAIR 16-30 ALE29-3	PMA272J1	Approved Apr 79
Countermeasures Chaff Dispensing Set, AN/ALE-37-1	NAVAIR 16-30 ALE37-1	PMA272J1	Approved Mar 75
Countermeasures Dispensing System, AN/ALE-39	NAVAIR 16-30 ALE39-1	PMA272J1	Approved May 94
Countermeasures Chaff Dispensing Set, AN/ALE-47-1	NAVAIR 16-30 ALE47-1	PMA272J1	Approved
ILSP for IR Expendable Countermeasures (Revision C)	CM-ILSP-346	PMA272J	Approved Sep 97
ILSP for Generic Expendable (GEN-X)	ARM-ILSP-101	PMA222	Approved Aug 96
ILSP for D-46/ALE39 Dispenser, Countermeasures Chaff (RR-184/RR189)	ARM-ILSP-203	PMA272J3	Approved Oct 97

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
AN/ALQ-190 (V)	NAVAIR 11-120-63	PMA272J1	Updated Jul 91
Generic Expendable (GEN-X)	NAVAIR 11-120-69	PMA272J1	Issued Dec 95

PART II - BILLET AND PERSONNEL REQUIREMENTS

The following elements are not affected by the Airborne Expendable Countermeasures and, therefore, are not included in Part II of this NTSP:

II.A. Billet Requirements

II.A.2.a. Operational and Fleet Support Activity Deactivation Schedule

II.A.2.b. Billets to be Deleted in Operational and Fleet Support Activities

II.A.2.c. Total Billets to be Deleted in Operational and Fleet Support Activities

Note 1: This section of the Airborne Expendable Countermeasures NTSP reflects intermediate level maintenance billets and personnel requirements. It is a compilation of one Navy NEC, AO 6801, and one Marine Corps MOS, 6541. Airborne Expendable Countermeasures do not require specific operator billets. Operator billets, normally pilots or aircrewmembers, are programmed through the applicable aircraft NTSP, e.g., F/A-18 NTSP, as are the Airborne Expendable Countermeasures organizational level billets. Organizational level billets will normally be filled by personnel holding an NEC identifying a skill level associated with an specific aircraft platform. Normally this will be an Aviation Ordnance NEC or MOS such as AO 8842 or MOS 6531; however, it may be held by personnel with other NECs or MOSs. Most aircraft platforms in the USN and USMC inventory have an airborne expendables countermeasure capability, consequently, organizational level personnel billets are identified in the aircraft NTSP. The addition of Airborne Expendable Countermeasures to the organizational level and intermediate level workloads is only a small percentage of the required workload for those NECs or MOSs. The NECs or MOSs are not dedicated to the Airborne Expendable Countermeasures. Therefore, the overall training throughput for the NEC and MOS will remain the same, i.e., it accounts for the total NEC/MOS community, and not just activities receiving Airborne Expendable Countermeasures.

Note 2: All billets identified in this section are programmed through other NTSPs, e.g., F/A -18 NTSP, applicable CV/CVN Class Total Ship NTSP, or applicable Shore Activity Manpower Documents. The activities and associated billets are listed to assist the weapons training community in identifying and managing training requirements throughout the development, production, and deployment of the airborne expendable countermeasures.

Note 3: Course numbers for all known aircraft weapons loading courses are identified in Part I, paragraph H of this NTSP. These courses should include Airborne Expendable Countermeasure devices as part of the curriculum. NAMTRAGRUHQ, TYCOMS, and Fleet Training Centers (FTCs) should ensure this curricula change has been incorporated in curricula and schoolhouses under their purview.

PART II - BILLET AND PERSONNEL REQUIREMENTS

II.A. BILLET REQUIREMENTS

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: USN: Total Force Manpower Management System, TFMMS
USMC: Extract from Table of Manpower Requirements, TFS MCCDC

DATE: 5/1/01
DATE: 5/1/01

ACTIVITY, UIC		PFYs	CFY01	FY02	FY03	FY04	FY05
OPERATIONAL ACTIVITIES - USMC							
HMH 772 CH-53E	09490	1	0	0	0	0	0
HMH CH-53E (East Coast)	00000	2	0	0	0	0	0
HMLA 773	09431	1	0	0	0	0	0
HMLA 773 DET	00000	1	0	0	0	0	0
HMLA 775 DET A	09415	1	0	0	0	0	0
HMLA AH-1/UH-1 (East Coast)	00000	2	0	0	0	0	0
HMM 774 CH-46	09430	1	0	0	0	0	0
HMM CH-46E (East Coast)	00000	5	0	0	0	0	0
VMA AV-8B (East Coast)	00000	3	0	0	0	0	0
VMAQ EA-6B (East Coast)	00000	4	0	0	0	0	0
VMFA 321	67235	1	0	0	0	0	0
VMFA F/A-18 (East Coast)	00000	4	0	0	0	0	0
VMFA(AW) F/A-18 (East Coast)	00000	3	0	0	0	0	0
VMFA-142	67243	1	0	0	0	0	0
VMM MV-22A	00000	1	0	0	0	0	0
HMH 769 CH-53E	09487	1	0	0	0	0	0
HMH CH-53D (West Coast)	00000	3	0	0	0	0	0
HMH CH-53E (West Coast)	00000	4	0	0	0	0	0
HMLA 775	55257	1	0	0	0	0	0
HMLA AH-1/UH-1 (West Coast)	00000	4	0	0	0	0	0
HMM 764 CH-46	09402	1	0	0	0	0	0
HMM CH-46E (West Coast)	00000	8	0	0	0	0	0
MALS 41 (FW)	03007	1	0	0	0	0	0
VMA AV-8B (West Coast)	00000	4	0	0	0	0	0
VMFA 112	08954	1	0	0	0	0	0
VMFA 134	09365	1	0	0	0	0	0
VMFA F/A-18 (West Coast)	00000	4	0	0	0	0	0
VMFA(AW) F/A-18 (West Coast)	00000	3	0	0	0	0	0
TOTAL:		67	0	0	0	0	0
FLEET SUPPORT ACTIVITIES - NAVY							
AIROPS/NAVOSH PM Brunswick	3193B	1	0	0	0	0	0
AMTGD Mayport	66069	1	0	0	0	0	0
ATG Norfolk	30733	1	0	0	0	0	0
AVORD MTT Norfolk	48764	1	0	0	0	0	0
COMNAVAIRLANT	57012	1	0	0	0	0	0
CSFWLD Beaufort	3006A	1	0	0	0	0	0
LANTORDDDET	31279	1	0	0	0	0	0
NAF Mildenhall	57032	1	0	0	0	0	0
NAMTRAU Norfolk	66046	1	0	0	0	0	0

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: USN: Total Force Manpower Management System, TFMMS
USMC: Extract from Table of Manpower Requirements, TFS MCCDC

DATE: 5/1/01
DATE: 5/1/01

ACTIVITY, UIC		PFYs	CFY01	FY02	FY03	FY04	FY05
NAS Keflavik, Iceland	63032	1	0	0	0	0	0
Naval Ordnance Center Indian Head	68963	1	0	0	0	0	0
NAVSTKAIR TS	39783	1	0	0	0	0	0
NWS Charleston	00193	1	0	0	0	0	0
USS Bataan, LHD 5	21879	1	0	0	0	0	0
USS Dwight D. Eisenhower, CVN 69	03369	1	0	0	0	0	0
USS Enterprise, CVN 65	03365	1	0	0	0	0	0
USS George Washington, CVN 73	21412	1	0	0	0	0	0
USS Harry S. Truman, CVN 75	21853	1	0	0	0	0	0
USS Iwo Jima, LHD 7	23027	1	0	0	0	0	0
USS John F. Kennedy, CV 67	03367	1	0	0	0	0	0
USS Kearsarge, LHD 3	21700	1	0	0	0	0	0
USS Nassau, LHA 4	20725	1	0	0	0	0	0
USS Ronald Reagan, CVN-76	22178	0	0	1	0	0	0
USS Theodore Roosevelt, CVN 71	21247	1	0	0	0	0	0
USS Saipan, LHA 2	20632	1	0	0	0	0	0
USS Wasp, LHD 1	21560	1	0	0	0	0	0
VFA 106	00000	1	0	0	0	0	0
USS Constellation, CV 64	03364	1	0	0	0	0	0
CNATRA CAU KVTX	49149	1	0	0	0	0	0
NAF EI Centro	60042	1	0	0	0	0	0
NAIRWPMaintun 1	52821	1	0	0	0	0	0
NAMTRAU North Island	66065	1	0	0	0	0	0
NAMTRAU Whidbey Island	66058	1	0	0	0	0	0
NAS Lemoore	63126	1	0	0	0	0	0
NAVBASE VC Point Mugu	69232	1	0	0	0	0	0
NAWCWD (NWCF)	63126	1	0	0	0	0	0
NSUPFAC DIEGO GARCI	68539	1	0	0	0	0	0
USS Bonhomme Richard, LHD 6	22202	1	0	0	0	0	0
USS Belleau Wood, LHA 3	20633	1	0	0	0	0	0
USS Boxer, LHD 4	21808	1	0	0	0	0	0
USS Carl Vinson, CVN 70	20993	1	0	0	0	0	0
USS Essex, LHD 2	21533	1	0	0	0	0	0
USS John C. Stennis, CVN 74	21847	1	0	0	0	0	0
USS Kitty Hawk, CV 63	03363	1	0	0	0	0	0
USS Abraham Lincoln, CVN 72	21297	1	0	0	0	0	0
USS Nimitz, CVN 68	03368	1	0	0	0	0	0
USS Peleliu, LHA 5	20748	1	0	0	0	0	0
USS Tarawa, LHA 1	20550	1	0	0	0	0	0
VAQ 129	83896	1	0	0	0	0	0
VFA 125	53971	1	0	0	0	0	0
TOTAL:		49	0	1	0	0	0
FLEET SUPPORT ACTIVITIES - USMC							
Blount Island Command	38450	1	0	0	0	0	0
FW MALS (East Coast)	00000	2	0	0	0	0	0
H&HS MCAS Beaufort	02031	1	0	0	0	0	0

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: USN: Total Force Manpower Management System, TFMMS
USMC: Extract from Table of Manpower Requirements, TFS MCCDC

DATE: 5/1/01
DATE: 5/1/01

ACTIVITY, UIC		PFYs	CFY01	FY02	FY03	FY04	FY05
H&HS MCAS Cherry Point	02002	1	0	0	0	0	0
H&HS MCAS New River	02021	1	0	0	0	0	0
MALS 42 (RW)	09513	1	0	0	0	0	0
MALS 49 (RW)	55555	1	0	0	0	0	0
MALS Rotary Wing (East Coast)	00000	2	0	0	0	0	0
MC Pers Dept of Navy Non-Dept	00000	1	0	0	0	0	0
VMAT 203	45483	1	0	0	0	0	0
Fort Worth Site Support	00000	1	0	0	0	0	0
FW MALS (West coast)	00000	3	0	0	0	0	0
H&HS Futenma, Japan	02601	1	0	0	0	0	0
H&HS Iwakuni, Japan	02501	1	0	0	0	0	0
H&HS MCAS Camp Pendleton	02208	1	0	0	0	0	0
H&HS MCAS Miramar	02201	1	0	0	0	0	0
H&HS MCAS Yuma	02230	1	0	0	0	0	0
HMT 303	55176	1	0	0	0	0	0
MAD China Lake	06117	1	0	0	0	0	0
MALS Rotary Wing (West Coast)	00000	3	0	0	0	0	0
Marine Aviation Logistics Support	02300	1	0	0	0	0	0
MAWTS 1 Yuma	55167	1	0	0	0	0	0
MCAF Kaneohe Bay	02303	1	0	0	0	0	0
MCAGCC Twentynine Palms	67399	1	0	0	0	0	0
VMAT 101	09965	1	0	0	0	0	0
TOTAL:		31	0	0	0	0	0

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
OPERATIONAL ACTIVITIES - USMC					
HMH 772 CH-53E, 09490					
USMC	0	1	CPL	6541	
	0	1	LCPL	6541	
ACTIVITY TOTAL	0	2			
HMH CH-53E (East Coast), 00000					
USMC	0	5	CPL	6541	
	0	1	LCPL	6541	
ACTIVITY TOTAL	0	6			
HMLA 773, 09431					
USMC	0	2	CPL	6541	
	0	2	LCPL	6541	
AR	0	1	SGT	6541	
SMCR	0	2	CPL	6541	
	0	4	LCPL	6541	
	0	1	SGT	6541	
ACTIVITY TOTAL	0	12			
HMLA 773 DET, 00000					
USMC	0	2	CPL	6541	
	0	2	LCPL	6541	
AR	0	1	SGT	6541	
SMCR	0	1	LCPL	6541	
ACTIVITY TOTAL	0	6			
HMLA 775 DET A, 09415					
USMC	0	2	CPL	6541	
	0	2	LCPL	6541	
AR	0	1	SGT	6541	
SMCR	0	1	LCPL	6541	
ACTIVITY TOTAL	0	6			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
HMLA AH-1/UH-1 (East Coast), 00000					
USMC	0	6	CPL	6541	
	0	9	LCPL	6541	
	0	3	SGT	6541	
ACTIVITY TOTAL	0	18			
HMM 774 CH-46, 09430					
USMC	0	2	CPL	6541	
ACTIVITY TOTAL	0	2			
HMM CH-46E (East Coast), 00000					
USMC	0	2	CPL	6541	
ACTIVITY TOTAL	0	2			
VMA AV-8B (East Coast), 00000					
USMC	0	3	CPL	6541	
	0	7	LCPL	6541	
	0	2	SGT	6541	
ACTIVITY TOTAL	0	12			
VMAQ EA-6B (East Coast), 00000					
USMC	0	1	CPL	6541	
ACTIVITY TOTAL	0	1			
VMFA 321, 67235					
USMC	0	2	LCPL	6541	
	0	1	SGT	6541	
AR	0	1	SGT	6541	
	0	1	SSGT	6541	
SMCR	0	1	GYSGT	6541	
	0	4	LCPL	6541	
ACTIVITY TOTAL	0	10			
VMFA F/A-18 (East Coast), 00000					
USMC	0	1	GYSGT	6541	
	0	6	LCPL	6541	
	0	2	SGT	6541	
	0	1	SSGT	6541	
ACTIVITY TOTAL	0	10			

II.A.1.b. BILLETTS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
VMFA(AW) F/A-18 (East Coast), 00000					
USMC	0	1	CPL	6541	
	0	5	LCPL	6541	
	0	3	SGT	6541	
	0	2	SSGT	6541	
ACTIVITY TOTAL	0	11			
VMFA-142, 67243					
USMC	0	2	LCPL	6541	
	0	1	SGT	6541	
AR	0	1	SGT	6541	
	0	1	SSGT	6541	
SMCR	0	1	GYSGT	6541	
	0	4	LCPL	6541	
ACTIVITY TOTAL	0	10			
VMM MV-22A, 00000					
USMC	0	2	CPL	6541	
ACTIVITY TOTAL	0	2			
HMH 769 CH-53E, 09487					
USMC	0	1	CPL	6541	
AR	0	1	LCPL	6541	
ACTIVITY TOTAL	0	2			
HMH CH-53D (West Coast), 00000					
USMC	0	2	CPL	6541	
ACTIVITY TOTAL	0	2			
HMH CH-53E (West Coast), 00000					
USMC	0	5	CPL	6541	
	0	1	LCPL	6541	
ACTIVITY TOTAL	0	6			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
HMLA 775, 55257					
USMC	0	2	CPL	6541	
	0	2	LCPL	6541	
AR	0	1	SGT	6541	
SMCR	0	2	CPL	6541	
	0	4	LCPL	6541	
	0	1	SGT	6541	
ACTIVITY TOTAL	0	12			
HMLA AH-1/UH-1 (West Coast), 00000					
USMC	0	6	CPL	6541	
	0	9	LCPL	6541	
	0	3	SGT	6541	
ACTIVITY TOTAL	0	18			
HMM 764 CH-46, 09402					
USMC	0	2	CPL	6541	
ACTIVITY TOTAL	0	2			
HMM CH-46E (West Coast), 00000					
USMC	0	2	CPL	6541	
ACTIVITY TOTAL	0	2			
MALS 41 (FW), 03007					
USMC	0	1	CPL	6541	
	0	2	GYSGT	6541	
	0	1	LCPL	6541	
	0	1	SGT	6541	
AR	0	1	GYSGT	6541	
	0	1	SGT	6541	
	0	2	SSGT	6541	
SMCR	0	7	CPL	6541	
	0	2	GYSGT	6541	
	0	20	LCPL	6541	
	0	6	SGT	6541	
	0	4	SSGT	6541	
ACTIVITY TOTAL	0	48			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
VMA AV-8B (West Coast), 00000					
USMC	0	3	CPL	6541	
	0	7	LCPL	6541	
	0	2	SGT	6541	
ACTIVITY TOTAL	0	12			
VMFA 112, 08954					
USMC	0	2	LCPL	6541	
	0	1	SGT	6541	
AR	0	1	SGT	6541	
	0	1	SSGT	6541	
SMCR	0	1	GYSGT	6541	
	0	4	LCPL	6541	
ACTIVITY TOTAL	0	10			
VMFA 134, 09365					
USMC	0	2	LCPL	6541	
	0	1	SGT	6541	
AR	0	1	SSGT	6541	
SMCR	0	1	GYSGT	6541	
	0	4	LCPL	6541	
	0	1	SGT	6541	
ACTIVITY TOTAL	0	10			
VMFA F/A-18 (West Coast), 00000					
USMC	0	1	GYSGT	6541	
	0	6	LCPL	6541	
	0	2	SGT	6541	
	0	1	SSGT	6541	
ACTIVITY TOTAL	0	10			
VMFA(AW) F/A-18 (west Coast), 00000					
USMC	0	1	CPL	6541	
	0	5	LCPL	6541	
	0	3	SGT	6541	
	0	2	SSGT	6541	
ACTIVITY TOTAL	0	11			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
FLEET SUPPORT ACTIVITIES - NAVY					
AIROPS/NAVOSH PM Brunswick, 3193B					
ACDU	0	2	AO1	6801	0812
	0	1	AO1	6801	
	0	3	AO2	6801	
	0	2	AO3	6801	
ACTIVITY TOTAL	0	8			
AMTGD Mayport, 66069					
ACDU	0	2	AOC	6801	9502
	0	2	AO1	6801	9502
ACTIVITY TOTAL	0	4			
ATG Norfolk, 30733					
ACDU	0	2	AOC	6801	
ACTIVITY TOTAL	0	2			
AVORD MTT Norfolk, 48764					
ACDU	0	5	AO1	6801	
ACTIVITY TOTAL	0	5			
COMNAVAIRLANT, 57012					
ACDU	0	2	AOC	6801	
ACTIVITY TOTAL	0	2			
CSFWLD Beaufort, 3006A					
ACDU	0	1	AO1	6801	
	0	3	AO2	6801	
	0	3	AO3	6801	
ACTIVITY TOTAL	0	7			
LANTORDDDET, 31279					
ACDU	0	1	AOC	6801	
	0	1	AO1	6801	
	0	8	AO2	6801	
	0	14	AO3	6801	
ACTIVITY TOTAL	0	24			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
NAF Mildenhall, 57032					
ACDU	0	1	AOC	6801	
ACTIVITY TOTAL	0	1			
NAMTRAU Norfolk, 66046					
ACDU	0	1	AOC	6801	9502
	0	3	AO1	6801	9502
ACTIVITY TOTAL	0	4			
NAS Keflavik, Iceland, 63032					
ACDU	0	1	AOC	6801	
	0	1	AOC	0812	6801
	0	1	AO2	6810	6801
	0	1	AO3	6801	
ACTIVITY TOTAL	0	4			
Naval Ordnance Center, Indian Head, 68963					
USMC	0	1	SSGT	6541	
ACTIVITY TOTAL	0	1			
NAVSTKAIR TS, 39783					
ACDU	0	2	AO1	6801	
	0	1	AO2	6801	
	0	5	AO3	6801	
ACTIVITY TOTAL	0	8			
NWS Charleston, 00193					
USMC	0	2	CPL	6541	
	0	1	GYSGT	6541	
	0	2	SGT	6541	
ACTIVITY TOTAL	0	5			
USS Bataan, LHD 5, 21879					
ACDU	0	2	AOC	6801	
	0	8	AO1	6801	
	0	2	AO2	6801	
ACTIVITY TOTAL	0	12			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USS Dwight D. Eisenhower, CVN 69, 03369					
ACDU	0	7	AOC	6801	
	0	23	AO1	6801	
	0	30	AO2	6801	
SELRES	0	4	AOC	6801	
	0	5	AO1	6801	
	0	4	AO2	6801	
ACTIVITY TOTAL	0	73			
USS Enterprise, CVN 65, 03365					
ACDU	0	1	AOC	6801	
	0	9	AO1	6801	
ACTIVITY TOTAL	0	10			
USS George Washington, CVN 73, 21412					
ACDU	0	5	AOC	6801	
	0	20	AO1	6801	
	0	33	AO2	6801	
SELRES	0	3	AOC	6801	
	0	4	AO1	6801	
	0	3	AO2	6801	
ACTIVITY TOTAL	0	68			
USS Harry S. Truman, CVN 75, 21853					
ACDU	0	5	AOC	6801	
	0	21	AO1	6801	
	0	29	AO2	6801	
SELRES	0	3	AOC	6801	
	0	4	AO1	6801	
	0	3	AO2	6801	
USS Harry S. Truman, CVN 75, 21853, FY04 Increment					
ACDU	0	4	AO2	6801	
ACTIVITY TOTAL	0	69			
USS Iwo Jima, LHD 7, 23027					
ACDU	0	2	AOC	6801	
	0	8	AO1	6801	
	0	2	AO2	6801	
ACTIVITY TOTAL	0	12			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USS John F. Kennedy, CV 76, 03367					
ACDU	0	7	AOC	6801	
	0	25	AO1	6801	
	0	29	AO2	6801	
SELRES	0	2	AO1	6801	
	0	7	AO2	6801	
ACTIVITY TOTAL	0	70			
USS Kearsarge, LHD 3, 21700					
ACDU	0	2	AOC	6801	
	0	8	AO1	6801	
	0	2	AO2	6801	
ACTIVITY TOTAL	0	12			
USS Nassau, LHA 4, 20725					
ACDU	0	2	AOC	6801	
	0	10	AO1	6801	
	0	1	AO2	6801	
ACTIVITY TOTAL	0	13			
USS Ronald Reagan, CVN 76, 22178, FY02 Increment					
ACDU	0	9	AOC	6801	
	0	29	AO1	6801	
	0	37	AO2	6801	
ACTIVITY TOTAL	0	75			
USS Theodore Roosevelt, CVN 71, 21247					
ACDU	0	5	AOC	6801	
	0	20	AO1	6801	
	0	33	AO2	6801	
SELRES	0	3	AOC	6801	
	0	4	AO1	6801	
	0	3	AO2	6801	
ACTIVITY TOTAL	0	68			
USS Saipan, LHA 2, 20632					
ACDU	0	2	AOC	6801	
	0	10	AO1	6801	
	0	1	AO2	6801	
ACTIVITY TOTAL	0	13			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USS Wasp, LHD 1, 21560					
ACDU	0	2	AOC	6801	
	0	8	AO1	6801	
	0	2	AO2	6801	
ACTIVITY TOTAL	0	12			
VFA 106					
USMC	0	1	SGT	6541	
ACTIVITY TOTAL	0	1			
USS Constellation, CV64, 03364					
ACDU	0	6	AOC	6801	
	0	10	AO1	6801	
ACTIVITY TOTAL	0	16			
CNATRA CAU KVTX, 49149					
ACDU	0	1	AO1	6801	9549
ACTIVITY TOTAL	0	1			
NAF El Centro, 60042					
ACDU	0	1	AOC	6801	
	0	1	AO1	6801	
	0	5	AO2	6801	
ACTIVITY TOTAL	0	7			
NAIRWPMaintUN 1, 52821					
ACDU	0	1	AOC	6801	
	0	3	AO1	6801	
	0	12	AO2	6801	
	0	4	AO3	6801	
ACTIVITY TOTAL	0	20			
NAMTRAU North Island, 66065					
ACDU	0	3	AO1	6801	9502
	0	2	AO2	6801	9502
ACTIVITY TOTAL	0	5			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
NAMTRAU Whidbey Island, 66058					
ACDU	0	2	AOC	6801	9502
	0	3	AO1	6801	9502
ACTIVITY TOTAL	0	5			
NAS Lemoore, 63126					
ACDU	0	2	AO1	6801	
	0	1	AO2	6801	
	0	1	AO2	6801	0812
ACTIVITY TOTAL	0	4			
NAVBASE VC Point Mugu, 69232					
ACDU	0	4	AO1	6801	
	0	5	AO2	6801	
ACTIVITY TOTAL	0	9			
NAWCWD (NWCF), 63126					
ACDU	0	1	AO1	6801	
ACTIVITY TOTAL	0	1			
NSUPFAC Diego Garcia, 68539					
ACDU	0	1	AO1	6801	
	0	2	AO2	6801	
	0	2	AO3	6801	
ACTIVITY TOTAL	0	5			
USS Bonhomme Richard, LHD 6, 22202					
ACDU	0	2	AOC	6801	
	0	8	AO1	6801	
	0	2	AO2	6801	
ACTIVITY TOTAL	0	12			
USS Belleau Wood, LHA 3, 20633					
ACDU	0	2	AOC	6801	
	0	9	AO1	6801	
	0	1	AO2	6801	
ACTIVITY TOTAL	0	12			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USS Boxer, LHD 4, 21808					
ACDU	0	2	AOC	6801	
	0	8	AO1	6801	
	0	2	AO2	6801	
ACTIVITY TOTAL	0	12			
USS Carl Vinson, CVN 70, 20993					
ACDU	0	8	AOC	6801	
	0	29	AO1	6801	
	0	36	AO2	6801	
ACTIVITY TOTAL	0	73			
USS Essex, LHD 2, 21533					
ACDU	0	2	AOC	6801	
	0	7	AO1	6801	
ACDU	0	2	AO2	6801	
ACTIVITY TOTAL	0	11			
USS John C. Stennis, CVN 74, 21847					
ACDU	0	9	AOC	6801	
	0	29	AO1	6801	
	0	35	AO2	6801	
SELRES	0	2	AO2	6801	
ACTIVITY TOTAL	0	75			
USS Kitty Hawk, CV63, 03363					
ACDU	0	5	AOC	6801	
	0	25	AO1	6801	
	0	22	AO2	6801	
SELRES	0	1	AOC	6801	
	0	2	AO1	6801	
	0	2	AO2	6801	
ACTIVITY TOTAL	0	57			
USS Abraham Lincoln, CVN 72, 21297					
ACDU	0	9	AOC	6801	
	0	29	AO1	6801	
	0	37	AO2	6801	
ACTIVITY TOTAL	0	75			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USS Nimitz, CVN 68, 03368					
ACDU	0	9	AOC	6801	
	0	29	AO1	6801	
	0	37	AO2	6801	
ACTIVITY TOTAL	0	75			
USS Peleliu, LHA 5, 20748					
ACDU	0	2	AOC	6801	
	0	9	AO1	6801	
	0	1	AO2	6801	
ACTIVITY TOTAL	0	12			
USS Tarawa, LHA 1, 20550					
ACDU	0	2	AOC	6801	
	0	9	AO1	6801	
ACDU	0	1	AO2	6801	
ACTIVITY TOTAL	0	12			
VAQ 129, 83896					
USMC	0	1	SGT	6541	
ACTIVITY TOTAL	0	1			
VFA 125, 53971					
USMC	0	1	SGT	6541	
ACTIVITY TOTAL	0	1			
FLEET SUPPORT ACTIVITIES - USMC					
Blount Island Command, 38450					
USMC	0	1	SGT	6541	
	0	1	SSGT	6541	
ACTIVITY TOTAL	0	2			
FW MALS (East Coast), 00000					
USMC	0	9	CPL	6541	
	0	4	GYSGT	6541	
	0	20	LCPL	6541	
	0	7	SGT	6541	
	0	4	SSGT	6541	
ACTIVITY TOTAL	0	44			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
H&HS MCAS Beaufort, 02031					
USMC	0	1	GYSGT	6541	
	0	1	LCPL	6541	
	0	1	SGT	6541	
	0	1	SGT	6541	9954
	0	1	SSGT	6541	
ACTIVITY TOTAL	0	5			
H&HS MCAS Cherry Point, 02002					
USMC	0	4	CPL	6541	
	0	4	SGT	6541	
	0	3	SSGT	6541	
ACTIVITY TOTAL	0	11			
H&HS MCAS New River, 02021					
USMC	0	1	CPL	6541	9954
	0	1	LCPL	6541	
	0	2	SGT	6541	
	0	1	SSGT	6541	
ACTIVITY TOTAL	0	5			
MALS 42 (RW), 09513					
USMC	0	1	LCPL	6541	
	0	1	SGT	6541	
AR	0	1	CPL	6541	
	0	1	GYSGT	6541	
	0	1	SSGT	6541	
SMCR	0	1	GYSGT	6541	
	0	3	LCPL	6541	
	0	2	SSGT	6541	
ACTIVITY TOTAL	0	11			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
MALS 49 (RW), 55555					
USMC	0	1	LCPL	6541	
	0	1	SGT	6541	
	0	1	SSGT	6541	
AR	0	2	SSGT	6541	
SMCR	0	1	CPL	6541	
	0	2	GYSGT	6541	
	0	2	LCPL	6541	
ACTIVITY TOTAL	0	10			
MALS Rotary Wing (East Coast), 00000					
USMC	0	1	CPL	6541	
	0	2	GYSGT	6541	
	0	5	LCPL	6541	
	0	1	SGT	6541	
	0	3	SSGT	6541	
ACTIVITY TOTAL	0	12			
MC Pers Dept of Navy Non-Dept, 00000					
USMC	0	2	CPL	6541	
	0	7	GYSGT	6541	
	0	2	SGT	6541	
	0	2	SSGT	6541	
ACTIVITY TOTAL	0	13			
VMAT 203, 45483					
USMC	0	3	GYSGT	6541	
	0	1	LCPL	6541	
	0	20	SGT	6541	
	0	4	SSGT	6541	
ACTIVITY TOTAL	0	28			
Fort Worth, Site Support, 00000					
AR	0	1	GYSGT	6541	
	0	1	SGT	6541	
ACTIVITY TOTAL	0	2			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
FW MALS (West Coast), 00000					
USMC	0	9	CPL	6541	
	0	4	GYSGT	6541	
	0	20	LCPL	6541	
	0	7	SGT	6541	
	0	4	SSGT	6541	
ACTIVITY TOTAL	0	44			
H&HS Futenma, Japan, 02601					
USMC	0	2	CPL	6541	
	0	1	GYSGT	6541	
	0	4	LCPL	6541	
	0	3	SGT	6541	
	0	2	SSGT	6541	
ACTIVITY TOTAL	0	12			
H&HS Iwakuni, Japan, 02501					
USMC	0	1	CPL	6541	
	0	1	LCPL	6541	
	0	3	SGT	6541	
	0	2	SSGT	6541	
ACTIVITY TOTAL	0	7			
H&HS MCAS Camp Pendleton, 02208					
USMC	0	2	CPL	6541	
	0	1	GYSGT	6541	
	0	1	LCPL	6541	
	0	1	SGT	6541	
USMC	0	3	SSGT	6541	
ACTIVITY TOTAL	0	8			
H&HS MCAS Miramar, 02201					
USMC	0	1	CPL	6541	
	0	2	GYSGT	6541	
	0	1	LCPL	6541	
	0	2	SGT	6541	
	0	2	SSGT	6541	
ACTIVITY TOTAL	0	8			

II.A.1.b. BILLETTS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETTS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
H&HS MCAS Yuma, 02230					
USMC	0	3	GYSGT	6541	
	0	1	LCPL	6541	
	0	1	SGT	6541	
	0	1	SSGT	6541	
	0	1	SSGT	6541	9954
ACTIVITY TOTAL	0	7			
HMT 303, 55176					
USMC	0	3	LCPL	6541	
	0	3	SGT	6541	
ACTIVITY TOTAL	0	6			
MAD China Lake, 06117					
USMC	0	1	GYSGT	6541	
	0	1	SSGT	6541	
ACTIVITY TOTAL	0	2			
MALS Rotary Wing (West Coast), 00000					
USMC	0	1	CPL	6541	
	0	2	GYSGT	6541	
	0	5	LCPL	6541	
	0	1	SGT	6541	
	0	3	SSGT	6541	
ACTIVITY TOTAL	0	12			
Marine Aviation Logistics Spt Element Kaneohe, 02300					
USMC	0	2	CPL	6541	
	0	1	GYSGT	6541	
	0	1	LCPL	6541	
	0	1	SGT	6541	
USMC	0	1	SSGT	6541	
ACTIVITY TOTAL	0	6			
MAWTS 1 Yuma, 55167					
USMC	0	1	GYSGT	6541	
	0	1	LCPL	6541	
ACTIVITY TOTAL	0	2			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
MCAF Kaneohe Bay, 02303					
USMC	0	4	LCPL	6541	
	0	2	SGT	6541	
	0	1	SSGT	6541	
ACTIVITY TOTAL	0	7			
MCAGCC Twentynine Palms, 67399					
USMC	0	3	LCPL	6541	
ACTIVITY TOTAL	0	3			
VMAT 101, 09965					
USMC	0	3	CPL	6541	
	0	6	LCPL	6541	
ACTIVITY TOTAL	0	9			

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF ENL	CFY01 OFF ENL	FY02 OFF ENL	FY03 OFF ENL	FY04 OFF ENL	FY05 OFF ENL
USMC OPERATIONAL ACTIVITIES - USMC							
CPL	6541	146	0	0	0	0	0
GYSGT	6541	10	0	0	0	0	0
LCPL	6541	205	0	0	0	0	0
SGT	6541	71	0	0	0	0	0
SSGT	6541	20	0	0	0	0	0
USMC OPERATIONAL ACTIVITIES - AR							
GYSGT	6541	1	0	0	0	0	0
LCPL	6541	1	0	0	0	0	0
SGT	6541	8	0	0	0	0	0
SSGT	6541	6	0	0	0	0	0
USMC OPERATIONAL ACTIVITIES - SMCR							
CPL	6541	11	0	0	0	0	0
GYSGT	6541	6	0	0	0	0	0
LCPL	6541	46	0	0	0	0	0
SGT	6541	9	0	0	0	0	0
SSGT	6541	4	0	0	0	0	0
NAVY FLEET SUPPORT ACTIVITIES - ACDU							
AOC	6801	109	0	9	0	0	0
AOC	6801 9502	5	0	0	0	0	0
AOC	0812 6801	1	0	0	0	0	0
AO1	6801	394	0	29	0	0	0
AO1	6801 812	1	0	0	0	0	0
AO1	6801 9502	11	0	0	0	0	0
AO1	6801 9549	1	0	0	0	0	0
AO2	6801	380	0	37	0	4	0
AO2	6801 812	1	0	0	0	0	0
AO2	6801 9502	2	0	0	0	0	0
AO2	6810 6801	1	0	0	0	0	0
AO3	6801	31	0	0	0	0	0
NAVY FLEET SUPPORT ACTIVITIES - SELRES							
AOC	6801	14	0	0	0	0	0
AO1	6801	21	0	0	0	0	0
AO2	6801	24	0	0	0	0	0
NAVY FLEET SUPPORT ACTIVITIES - USMC							
CPL	6541	2	0	0	0	0	0
GYSGT	6541	1	0	0	0	0	0
SGT	6541	5	0	0	0	0	0
SSGT	6541	1	0	0	0	0	0

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC		PFYs		CFY01		FY02		FY03		FY04		FY05	
	PMOS	SMOS	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
USMC FLEET SUPPORT ACTIVITIES - USMC														
CPL	6541			67		0		0		0		0		0
CPL	6541	9954		1		0		0		0		0		0
GYSGT	6541			51		0		0		0		0		0
LCPL	6541			156		0		0		0		0		0
SGT	6541			88		0		0		0		0		0
SGT	6541	9954		1		0		0		0		0		0
SSGT	6541			61		0		0		0		0		0
SSGT	6541	9954		1		0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - AR														
CPL	6541			1		0		0		0		0		0
GYSGT	6541			2		0		0		0		0		0
SGT	6541			1		0		0		0		0		0
SSGT	6541			3		0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - SMCR														
CPL	6541			1		0		0		0		0		0
GYSGT	6541			3		0		0		0		0		0
LCPL	6541			5		0		0		0		0		0
SSGT	6541			2		0		0		0		0		0

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY01		FY02		FY03		FY04		FY05	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
SUMMARY TOTALS:													
USMC OPERATIONAL ACTIVITIES - USMC													
	452				0		0		0		0		0
USMC OPERATIONAL ACTIVITIES - AR													
	16				0		0		0		0		0
USMC OPERATIONAL ACTIVITIES - SMCR													
	76				0		0		0		0		0
NAVY FLEET SUPPORT ACTIVITIES - ACDU													
	937				0		75		0		4		0
NAVY FLEET SUPPORT ACTIVITIES - SELRES													
	59				0		0		0		0		0
NAVY FLEET SUPPORT ACTIVITIES - USMC													
	9				0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - USMC													
	426				0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - AR													
	7				0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - SMCR													
	11				0		0		0		0		0

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF ENL	CFY01 OFF ENL	FY02 OFF ENL	FY03 OFF ENL	FY04 OFF ENL	FY05 OFF ENL
GRAND TOTALS:							
NAVY - ACDU		937	0	75	0	4	0
NAVY - SELRES		59	0	0	0	0	0
NAVY - USMC		9	0	0	0	0	0
USMC - USMC		878	0	0	0	0	0
USMC - AR		23	0	0	0	0	0
USMC - SMCR		87	0	0	0	0	0

II.A.2.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY DEACTIVATION SCHEDULE

SOURCE: TFMMS

DATE: 5/1/01

ACTIVITY, UIC		PFYs	CFY01	FY02	FY03	FY04	FY05
FLEET SUPPORT ACTIVITIES - NAVY							
USS Constellation, CV 64	03364	0	0	0	1	0	0
USS Kitty Hawk, CV 63	03363	0	0	0	1	0	0
TOTAL:		0	0	0	2	0	0

II.A.2.b. BILLETS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
FLEET SUPPORT ACTIVITIES - NAVY					
USS Kitty Hawk, CV 63, 03363, FY03 Increment					
ACDU	0	1	AOC	6801	
	0	2	AO1	6801	
ACTIVITY TOTAL	0	3			

II.A.2.c. TOTAL BILLETS TO BE DELETED IN OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY01		FY02		FY03		FY04		FY05	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NAVY FLEET SUPPORT ACTIVITIES - ACDU													
AOC	6801		11		0		-6		-5		0		0
AO1	6801		35		0		-10		-25		0		0
AO2	6801		22		0		0		-22		0		0
NAVY FLEET SUPPORT ACTIVITIES - SELRES													
AOC	6801		1		0		0		-1		0		0
AO1	6801		2		0		0		-2		0		0
AO2	6801		2		0		0		-2		0		0
SUMMARY TOTALS:													
NAVY FLEET SUPPORT ACTIVITIES - ACDU													
			68		0		-16		-52		0		0
NAVY FLEET SUPPORT ACTIVITIES - SELRES													
			5		0		0		-5		0		0
GRAND TOTALS:													
NAVY - ACDU													
			68		0		-16		-52		0		0
NAVY - SELRES													
			5		0		0		-5		0		0

II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS

DESIG RATING	PNEC/SNEC PMOS/SMOS		PFYs		CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL		

TRAINING ACTIVITY, LOCATION, UIC: MTU 4030 NAMTRAU Mayport, 66069

INSTRUCTOR BILLETS

ACDU														
AOC	6801	9502	0	2	0	2	0	2	0	2	0	2	0	2
AO1	6801	9502	0	2	0	2	0	2	0	2	0	2	0	2
TOTAL:			0	4	0	4	0	4	0	4	0	4	0	4

TRAINING ACTIVITY, LOCATION, UIC: MTU 4032 NAMTRAU Norfolk, 66046

INSTRUCTOR BILLETS

ACDU														
AOC	6801	9502	0	1	0	1	0	1	0	1	0	1	0	1
AO1	6801	9502	0	3	0	3	0	3	0	3	0	3	0	3
TOTAL:			0	4	0	4	0	4	0	4	0	4	0	4

TRAINING ACTIVITY, LOCATION, UIC: MTU 4033 NAMTRAU North Island, 66065

INSTRUCTOR BILLETS

ACDU														
AO1	6801	9502	0	2	0	2	0	2	0	2	0	2	0	2
AO2	6801	9502	0	2	0	2	0	2	0	2	0	2	0	2
TOTAL:			0	4	0	4	0	4	0	4	0	4	0	4

TRAINING ACTIVITY, LOCATION, UIC: MTU 4034 VMAT -203 FREST, MCAS Cherry Point, 45483

INSTRUCTOR BILLETS

USMC														
GYSGT	6541		0	0	0	0	0	0	0	0	0	0	0	0
SGT	6541		0	19	0	19	0	19	0	19	0	19	0	19
SSGT	6541		0	2	0	2	0	2	0	2	0	2	0	2
TOTAL:			0	21	0	21	0	21	0	21	0	21	0	21

II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS

DESIG RATING	PNEC/SNEC PMOS/SMOS		PFYs		CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL		

TRAINING ACTIVITY, LOCATION, UIC: MTU 4035 NAMTRAU Whidbey Island, 66058

INSTRUCTOR BILLETS

ACDU														
AOC	6801	9502	0	1	0	1	0	1	0	1	0	1	0	1
AO1	6801	9502	0	2	0	2	0	2	0	2	0	2	0	2
TOTAL:			0	3	0	3	0	3	0	3	0	3	0	3

II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS

ACTIVITY, LOCATION, UIC	USN/ USMC	PFYs		CFY01		FY02		FY03		FY04		FY05	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 4030 NAMTRAU Mayport, 66069	NAVY		1.9		1.9		1.9		1.9		1.9		1.9
MTU 4032 NAMTRAU Norfolk, 66046	NAVY		11.4		11.4		19.3		12.1		12.5		12.1
MTU 4034 VMAT -203 FREST, MCAS Cherry Point, 45483	USMC		47.7		47.7		47.7		47.7		47.7		47.7
MTU 4033 NAMTRAU North Island, 66065	NAVY		8.0		8.0		8.0		7.8		6.3		6.3
MTU 4035 NAMTRAU Whidbey Island, 66058	NAVY		3.6		3.6		3.6		3.6		3.6		3.6
SUMMARY TOTALS:													
	NAVY		24.9		24.9		32.8		25.4		24.3		23.9
	USMC		47.7		47.7		47.7		47.7		47.7		47.7
GRAND TOTALS:													
			72.6		72.6		80.5		73.1		72.0		71.6

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01 +/- CUM	FY02 +/- CUM	FY03 +/- CUM	FY04 +/- CUM	FY05 +/- CUM
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a. OFFICER - USN Not Applicable

b. ENLISTED - USN

Fleet Support Billets ACDU and TAR

AOC	6801		109	0	109	3	118	-5	107	0	107	0	107
AOC	6801	9502	5	0	5	0	5	0	5	0	5	0	5
AOC	0812	6801	1	0	1	0	1	0	1	0	1	0	1
AO1	6801		394	0	394	19	423	-25	388	0	388	0	388
AO1	6801	812	1	0	1	0	1	0	1	0	1	0	1
AO1	6801	9502	11	0	11	0	11	0	11	0	11	0	11
AO1	6801	9549	1	0	1	0	1	0	1	0	1	0	1
AO2	6801		380	0	380	37	417	-22	395	4	399	0	399
AO2	6801	812	1	0	1	0	1	0	1	0	1	0	1
AO2	6801	9502	2	0	2	0	2	0	2	0	2	0	2
AO2	6810	6801	1	0	1	0	1	0	1	0	1	0	1
AO3	6801		31	0	31	0	31	0	31	0	31	0	31

Staff Billets ACDU and TAR

AOC	6801	9502	4	0	4	0	4	0	4	0	4	0	4
AO1	6801	9502	9	0	9	0	9	0	9	0	9	0	9
AO2	6801	9502	2	0	2	0	2	0	2	0	2	0	2

Chargeable Student Billets ACDU and TAR

25	0	25	8	33	-7	26	-2	24	0	24
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SELRES Billets

AOC	6801		14	0	14	0	14	-1	13	0	13	0	13
AO1	6801		21	0	21	0	21	-2	19	0	19	0	19
AO2	6801		24	0	24	0	24	-2	22	0	22	0	22

TOTAL USN ENLISTED BILLETS:

Fleet Support			937	0	937	59	990	-52	948	4	952	0	952
Staff			15	0	15	0	15	0	15	0	15	0	15
Chargeable Student			25	0	25	8	33	-7	26	-2	24	0	24
SELRES			59	0	59	0	59	-5	54	0	54	0	54

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01 +/- CUM	FY02 +/- CUM	FY03 +/- CUM	FY04 +/- CUM	FY05 +/- CUM
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c. OFFICER - USMC Not Applicable

d. ENLISTED - USMC

Operational Billets USMC and AR

CPL	6541		146	0	146	0	146	0	146	0	146
GYSGT	6541		11	0	11	0	11	0	11	0	11
LCPL	6541		206	0	206	0	206	0	206	0	206
SGT	6541		79	0	79	0	79	0	79	0	79
SSGT	6541		26	0	26	0	26	0	26	0	26

Fleet Support Billets USMC and AR

CPL	6541		70	0	70	0	70	0	70	0	70
CPL	6541	9954	1	0	1	0	1	0	1	0	1
GYSGT	6541		54	0	54	0	54	0	54	0	54
LCPL	6541		156	0	156	0	156	0	156	0	156
SGT	6541		94	0	94	0	94	0	94	0	94
SGT	6541	9954	1	0	1	0	1	0	1	0	1
SSGT	6541		65	0	65	0	65	0	65	0	65
SSGT	6541	9954	1	0	1	0	1	0	1	0	1

Staff Billets USMC and AR

GYSGT	6541		0	0	0	0	0	0	0	0	0
SGT	6541		19	0	19	0	19	0	19	0	19
SSGT	6541		2	0	2	0	2	0	2	0	2

Chargeable Student Billets USMC and AR

			48	0	48	0	48	0	48	0	48
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SMCR Billets

CPL	6541		12	0	12	0	12	0	12	0	12
GYSGT	6541		9	0	9	0	9	0	9	0	9
LCPL	6541		51	0	51	0	51	0	51	0	51
SGT	6541		9	0	9	0	9	0	9	0	9
SSGT	6541		6	0	6	0	6	0	6	0	6

TOTAL USMC ENLISTED BILLETS:

Operational			468	0	468	0	468	0	468	0	468
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Fleet Support			442	0	442	0	442	0	442	0	442
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II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01		FY02		FY03		FY04		FY05	
				+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
Staff			21	0	21	0	21	0	21	0	21	0	21
Chargeable Student			48	0	48	0	48	0	48	0	48	0	48
SMCR			87	0	87	0	87	0	87	0	87	0	87

II.B. PERSONNEL REQUIREMENTS

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: D-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance

COURSE LENGTH: 7.0 Weeks

NAVY TOUR LENGTH: 60 Months

ATTRITION Navy: 10% USMC: 0%

BACKOUT FACTOR: 0.14

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 4030 NAMTRAU Mayport												
	NAVY	ACDU		15		15		15		15		15
		SELRES		1		1		1		1		1
MTU 4032 NAMTRAU Norfolk												
	NAVY	ACDU		89		151		95		98		95
		SELRES		4		4		4		4		4
		TOTAL:		109		171		115		118		115

CIN, COURSE TITLE: E-646-7007, General Shipboard /NAS Weapons Department Maintenance

COURSE LENGTH: 6.0 Weeks

NAVY TOUR LENGTH: 60 Months

ATTRITION Navy: 10% USMC: 0%

BACKOUT FACTOR: 0.12

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 4033 NAMTRAU North Island												
	NAVY	ACDU		73		73		71		58		58
		SELRES		1		0		1		0		0
MTU 4035 NAMTRAU Whidbey Island												
	NAVY	ACDU		33		33		33		33		33
		TOTAL:		107		106		105		91		91

CIN, COURSE TITLE: M-646-7026, Aircraft Ordnance Intermediate Maintenance

COURSE LENGTH: 11.0 Weeks

NAVY TOUR LENGTH: 36 Months

ATTRITION Navy: 0% USMC: 0%

BACKOUT FACTOR: 0.22

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 4034 VMAT-203 FREST, MCAS Cherry Point												
	USMC	USMC		220		220		220		220		220
		AR		6		6		6		6		6
		SMCR		9		9		9		9		9
		TOTAL:		235		235		235		235		235

PART III - TRAINING REQUIREMENTS

The following elements are not affected by Airborne Expendable Countermeasures and, therefore, are not included in this NTSP.

III.A.1. Initial Training Requirements

III.A.2. Follow-on Training

III.A.2.b. Planned Courses

III.A.2.c. Unique Courses

III.A.3. Existing Training Phased Out

PART III - TRAINING REQUIREMENTS

III.A. TRAINING COURSE REQUIREMENTS

III.A.2. FOLLOW-ON TRAINING

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: D-646-7007, General Shipboard / NAS Weapons Department AVORD Maintenance
TRAINING ACTIVITY: MTU 4030 NAMTRAU
LOCATION, UIC: NS Mayport, 66069

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	2		2		2		2		2	ATIR
	2		2		2		2		2	Output
	0.3		0.3		0.3		0.3		0.3	AOB
	0.3		0.3		0.3		0.3		0.3	Chargeable

TRAINING ACTIVITY: MTU 4032 NAMTRAU
LOCATION, UIC: NAS Norfolk, 66046

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	76		138		81		82		85	ATIR
	68		124		73		74		77	Output
	9.7		17.6		10.3		10.5		10.8	AOB
	9.7		17.6		10.3		10.5		10.8	Chargeable

SOURCE: NAVY **STUDENT CATEGORY:** SELRES

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	3		3		3		3		3	ATIR
	3		3		3		3		3	Output
	0.4		0.4		0.4		0.4		0.4	AOB
	0.4		0.4		0.4		0.4		0.4	Chargeable

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: E-646-7007, General Shipboard / NAS Weapons Department Maintenance
TRAINING ACTIVITY: MTU 4033 NAMTRAU
LOCATION, UIC: NAS North Island, 66065

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	73		73		72		69		69	ATIR
	66		66		65		62		62	Output
	8.0		8.0		7.9		7.5		7.5	AOB
	8.0		8.0		7.9		7.5		7.5	Chargeable

SOURCE: NAVY **STUDENT CATEGORY:** SELRES

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	1		1		1		1		1	ATIR
	1		1		1		1		1	Output
	0.1		0.1		0.1		0.1		0.1	AOB
	0.1		0.1		0.1		0.1		0.1	Chargeable

TRAINING ACTIVITY: MTU 4033 NAMTRAU
LOCATION, UIC: NAS Whidbey Island, 66058

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	33		33		33		33		33	ATIR
	30		30		30		30		30	Output
	3.6		3.6		3.6		3.6		3.6	AOB
	3.6		3.6		3.6		3.6		3.6	Chargeable

CIN, COURSE TITLE: M-646-7026, Aircraft Ordnance Intermediate Maintenance
TRAINING ACTIVITY: MTU 4034 VMAT-203 FREST
LOCATION, UIC: MCAS Cherry Point, 45483

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	226		226		226		226		226	ATIR
	226		226		226		226		226	Output
	47.7		47.7		47.7		47.7		47.7	AOB
	47.7		47.7		47.7		47.7		47.7	Chargeable

III.A.2.a. EXISTING COURSES

SOURCE: USMC

STUDENT CATEGORY: SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	9		9		9		9		9	ATIR
	9		9		9		9		9	Output
	1.9		1.9		1.9		1.9		1.9	AOB
	1.9		1.9		1.9		1.9		1.9	Chargeable

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

The following elements are not affected by the Airborne Expendable Countermeasures and, therefore, are not included in Part IV of this NTSP:

IV.A. Training Hardware

IV.A.2. Training Devices

IV.B. Courseware Requirements

IV.B.1. Training Services

IV.C. Facility Requirements

IV.C.1. Facility Requirements Summary (Space/Support) by Activity

IV.C.2. Facility Requirements Detailed by Activity and Course

IV.C.3. Facility Project Summary by Program

Note: The Airborne Expendable Countermeasures safety lessons taught in courses listed in this section include safety lessons and transparencies that were previously delivered to the schoolhouses by PMA272. No particular individual publication covers these unique devices as well as the safety lessons prepared by PMA272. For this reason no publications pertinent to AECM are listed in this section. All required reference manuals are currently available. Required "page changes" will be provided by the Naval Air Technical Data and Engineering Service Command (NATEC).

IV.A. TRAINING HARDWARE

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: C-646-9962, F-14A/B Armament Systems Initial Organizational Maintenance, as part of track D-646-1647

TRAINING ACTIVITY: MTU 1007 NAMTRAU

LOCATION, UIC: NAS Oceana, 66045

ITEM NUMBER	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQUIRED	DATE REQUIRED	GFE CFE	STATUS
TTE					
001	Airborne Countermeasure Display Case	1	2/1/98	GFE	Onboard

CIN, COURSE TITLE: C-646-4109 Air Launched Weapons Ordnance General, as part of track D/E-646-7007

TRAINING ACTIVITY: MTU 4030 NAMTRAU

LOCATION, UIC: NS Mayport, 66069

ITEM NUMBER	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQUIRED	DATE REQUIRED	GFE CFE	STATUS
TTE					
001	Airborne Countermeasure Display Case	1	2/1/98	GFE	Onboard
002	Inert Chaff Countermeasure Set, AN/ALQ-190(V)1	1	2/1/98	GFE	Onboard

CIN, COURSE TITLE: C-646-9570, P-3C Armament/Ordnance Systems Initial Organizational Maintenance, as part of track D-646-1042

TRAINING ACTIVITY: MTU 1012 NAMTRAU

LOCATION, UIC: NAS Whidbey Island, 66059

ITEM NUMBER	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQUIRED	DATE REQUIRED	GFE CFE	STATUS
TTE					
001	Airborne Countermeasure Display Case	1	2/1/98	GFE	Onboard

CIN, COURSE TITLE: C-646-3105, Aviation Ordnance Intermediate Maintenance Technician, as part of track M-646-7026

TRAINING ACTIVITY: VMAT-203 FREST

LOCATION, UIC: MCAS Cherry Point, 31511

ITEM NUMBER	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQUIRED	DATE REQUIRED	GFE CFE	STATUS
TTE					
001	Airborne Countermeasure Display Case	1	2/1/98	GFE	Onboard

IV.A. TRAINING HARDWARE

CIN, COURSE TITLE: C-646-3106, Rotary Wing Armament Organizational Level Differences
TRAINING ACTIVITY: VMAT-303 FREST
LOCATION, UIC: MCAS Camp Pendleton, 48107

ITEM NUMBER	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQUIRED	DATE REQUIRED	GFE CFE	STATUS
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TTE

001	Airborne Countermeasure Display Case	1	2/1/98	GFE	Onboard
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CIN, COURSE TITLE: C-646-9361, H-1 Armament Repair Integrated Organizational Maintenance, as part of track M-646-2044
TRAINING ACTIVITY: VMAT-303 FREST
LOCATION, UIC: MCAS Camp Pendleton, 48107

ITEM NUMBER	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQUIRED	DATE REQUIRED	GFE CFE	STATUS
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TTE

001	Airborne Countermeasure Display Case	1	2/1/98	GFE	Onboard
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CIN, COURSE TITLE: C-102-9404, SH-3H Communications/Navigation Systems Initial Organizational Maintenance, as part of track D-102-0521
TRAINING ACTIVITY: MTU 1005 NAMTRAU
LOCATION, UIC: NAS Jacksonville, 66051

ITEM NUMBER	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQUIRED	DATE REQUIRED	GFE CFE	STATUS
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TTE

001	Airborne Countermeasure Display Case	1	2/1/98	GFE	Onboard
002	Inert Chaff Countermeasure Set, AN/ALQ-190(V)1	2	2/1/98	GFE	Onboard

CIN, COURSE TITLE: C-646-4109, Air Launched Weapons Ordnance General, as part of track D-646-7007
TRAINING ACTIVITY: MTU 4032 NAMTRAU
LOCATION, UIC: NAS Norfolk, 44680

ITEM NUMBER	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQUIRED	DATE REQUIRED	GFE CFE	STATUS
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TTE

001	Airborne Countermeasure Display Case	1	2/1/98	GFE	Onboard
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CIN, COURSE TITLE: C-646-4109, Air Launched Weapons Ordnance General, as part of track D-646-7007
TRAINING ACTIVITY: MTU 4033 NAMTRAU
LOCATION, UIC: NAS North Island, 66065

ITEM NUMBER	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQUIRED	DATE REQUIRED	GFE CFE	STATUS
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TTE

001	Airborne Countermeasure Display Case	1	2/1/98	GFE	Onboard
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002	Inert Chaff Countermeasure Set, AN/ALQ-190(V)1	1	2/1/98	GFE Onboard
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IV.A. TRAINING HARDWARE

CIN, COURSE TITLE: Q-4E-0010, Aviation Ordnance Officer Career Progression (AOOCP)
TRAINING ACTIVITY: Ordnance University
LOCATION, UIC: NAS Pensacola, 62229

ITEM NUMBER	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQUIRED	DATE REQUIRED	GFE CFE	STATUS
TTE					
001	Airborne Countermeasure Display Case	1	2/1/98	GFE	Onboard

CIN, COURSE TITLE: E-646-0640, F/A-18 Conventional Weapons Release and Loading, as part of track D/E-646-0653
TRAINING ACTIVITY: Strike Fighter Weapons School
LOCATION, UIC: NAS Lemoore, 66060

ITEM NUMBER	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQUIRED	DATE REQUIRED	GFE CFE	STATUS
TTE					
001	Airborne Countermeasure Display Case	1	2/1/98	GFE	Onboard

CIN, COURSE TITLE: D-646-0640, F/A-18 Conventional Weapons Release and Loading, as part of track D/E-646-0653
TRAINING ACTIVITY: Strike Fighter Weapons School
LOCATION, UIC: NAS Oceana, 47084

ITEM NUMBER	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQUIRED	DATE REQUIRED	GFE CFE	STATUS
TTE					
001	Airborne Countermeasure Display Case	1	2/1/98	GFE	Onboard

CIN, COURSE TITLE: C-646-3680, S-3B Conventional Weapons Release Checks and Loading
TRAINING ACTIVITY: Sea Control Wing Weapons Training Unit
LOCATION, UIC: NAS Jacksonville, 52955

ITEM NUMBER	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQUIRED	DATE REQUIRED	GFE CFE	STATUS
TTE					
001	Airborne Countermeasure Display Case	1	2/1/98	GFE	Onboard
002	Inert Chaff Countermeasure Set, AN/ALQ-190(V)1	1	2/1/98	GFE	Onboard

CIN, COURSE TITLE: D-646-1644, F-14A/B Conventional Weapons Loading Team
TRAINING ACTIVITY: Strike Weapon Attack Training School Atlantic
LOCATION, UIC: NAS Oceana, 47157

ITEM NUMBER	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQUIRED	DATE REQUIRED	GFE CFE	STATUS
TTE					
001	Airborne Countermeasure Display Case	1	2/1/98	GFE	Onboard

IV.A. TRAINING HARDWARE

CIN, COURSE TITLE: D-646-1646, F-14D Conventional Weapons Release Checks and Loading
TRAINING ACTIVITY: Strike Weapon Attack Training School Atlantic
LOCATION, UIC: NAS Oceana, 47157

ITEM NUMBER	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQUIRED	DATE REQUIRED	GFE CFE	STATUS
TTE 001	Airborne Countermeasure Display Case	1	2/1/98	GFE	Onboard

CIN, COURSE TITLE: E-646-1842, EA-6B Aircraft AGM-88 (HARM) Loading and System
TRAINING ACTIVITY: Electronic Combat Weapons School
LOCATION, UIC: NAS Whidbey Island, 47445

ITEM NUMBER	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQUIRED	DATE REQUIRED	GFE CFE	STATUS
TTE 001	Airborne Countermeasure Display Case	1	2/1/98	GFE	Onboard

CIN, COURSE TITLE: A-431-0012, Explosive Ordnance Disposal Phase 2
TRAINING ACTIVITY: NAVSCOLEOD
LOCATION, UIC: NSWC Indian Head, 00174

ITEM NUMBER	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQUIRED	DATE REQUIRED	GFE CFE	STATUS
TTE 001	Airborne Countermeasure Display Case	1	2/1/98	GFE	Onboard

CIN, COURSE TITLE: C-646-9962, F-14A/B Armament Systems Initial Organizational Maintenance, as part of track
D-646-1647
TRAINING ACTIVITY: MTU 1007 NAMTRAU
LOCATION, UIC: NAS Oceana, 66045

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Transparencies	13	2/98	Onboard
Training Material Change Package	1	2/98	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: C-646-4109 Air Launched Weapons Ordnance General, as part of track D/E-646-7007

TRAINING ACTIVITY: MTU 4030 NAMTRAU

LOCATION, UIC: NS Mayport, 66069

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Transparencies	13	2/98	Onboard
Training Material Change Package	1	2/98	Onboard

CIN, COURSE TITLE: C-646-9570, P-3C Armament/Ordnance Systems Initial Organizational Maintenance, as part of track D-646-1042

TRAINING ACTIVITY: MTU 1012 NAMTRAU

LOCATION, UIC: NAS Whidbey Island, 66059

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Transparencies	13	2/98	Onboard
Training Material Change Package	1	2/98	Onboard

CIN, COURSE TITLE: C-646-3105, Aviation Ordnance Intermediate Maintenance Technician, as part of track M-646-7026

TRAINING ACTIVITY: VMAT-203 FREST

LOCATION, UIC: MCAS Cherry Point, 31511

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Transparencies	13	2/98	Onboard
Training Material Change Package	1	2/98	Onboard

CIN, COURSE TITLE: C-646-3106, Rotary Wing Armament Organizational Level Differences

TRAINING ACTIVITY: HMT-303 FREST

LOCATION, UIC: MCAS Camp Pendleton, 48107

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Transparencies	13	2/98	Onboard
Training Material Change Package	1	2/98	Onboard

CIN, COURSE TITLE: C-646-9361, H-1 Armament Repair Integrated Organizational Maintenance, as part of track M-646-2044

TRAINING ACTIVITY: HMT-303 FREST

LOCATION, UIC: MCAS Camp Pendleton, 48107

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Transparencies	13	2/98	Onboard
Training Material Change Package	1	2/98	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: C-102-9404, SH-3H Communications/Navigation Systems Initial Organizational Maintenance, as part of track D-102-0521

TRAINING ACTIVITY: MTU 1005 NAMTRAU

LOCATION, UIC: NAS Jacksonville, 66051

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Transparencies	13	2/98	Onboard
Training Material Change Package	1	2/98	Onboard

CIN, COURSE TITLE: C-646-4109, Air Launched Weapons Ordnance General, as part of track D/E 646-7007

TRAINING ACTIVITY: MTU 4032 NAMTRAU

LOCATION, UIC: NAS Norfolk, 44680

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Transparencies	13	2/98	Onboard
Training Material Change Package	1	2/98	Onboard

CIN, COURSE TITLE: C-646-4109, Air Launched Weapons Ordnance General, as part of track D/E 646-7007

TRAINING ACTIVITY: MTU 4033 NAMTRAU

LOCATION, UIC: NAS North Island, 66065

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Transparencies	13	2/98	Onboard
Training Material Change Package	1	2/98	Onboard

CIN, COURSE TITLE: Q-4E-0010, Aviation Ordnance Officer Career Progression (AOOCP)

TRAINING ACTIVITY: Ordnance University

LOCATION, UIC: NAS Pensacola, 62229

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Transparencies	13	2/98	Onboard
Training Material Change Package	1	2/98	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: E-646-0640, F/A-18 Conventional Weapons Release and Loading, as part of track D/E-646-0653
TRAINING ACTIVITY: Strike Fighter Weapons School
LOCATION, UIC: NAS Lemoore, 66060

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Transparencies	13	2/98	Onboard
Training Material Change Package	1	2/98	Onboard

CIN, COURSE TITLE: D-646-0640, F/A-18 Conventional Weapons Release and Loading, as part of track D/E-646-0653
TRAINING ACTIVITY: Strike Fighter Weapons School
LOCATION, UIC: NAS Oceana, 47084

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Transparencies	13	2/98	Onboard
Training Material Change Package	1	2/98	Onboard

CIN, COURSE TITLE: C-646-3680, S-3B Conventional Weapons Release Checks and Loading
TRAINING ACTIVITY: Sea Control Wing Weapons Training Unit
LOCATION, UIC: NAS Jacksonville, 52955

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Transparencies	13	2/98	Onboard
Training Material Change Package	1	2/98	Onboard

CIN, COURSE TITLE: D-646-1644, F-14A/B Conventional Weapons Loading Team
TRAINING ACTIVITY: Strike Weapon Attack Training School Atlantic
LOCATION, UIC: NAS Oceana, 47157

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Transparencies	13	2/98	Onboard
Training Material Change Package	1	2/98	Onboard

CIN, COURSE TITLE: D-646-1646, F-14D Conventional Weapons Release Checks and Loading
TRAINING ACTIVITY: Strike Weapon Attack Training School Atlantic
LOCATION, UIC: NAS Oceana, 47157

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Transparencies	13	2/98	Onboard
Training Material Change Package	1	2/98	Onboard

CIN, COURSE TITLE: E-646-1842, EA-6B Aircraft AGM-88 (HARM) Loading and System
TRAINING ACTIVITY: Electronic Combat Weapons School
LOCATION, UIC: NAS Whidbey Island, 47445

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Transparencies	13	2/98	Onboard
Training Material Change Package	1	2/98	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: A-431-0012, Explosive Ordnance Disposal Phase 2

TRAINING ACTIVITY: NAVSCOLEOD

LOCATION, UIC: NSWC Indian Head, 00174

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Transparencies	13	2/98	Onboard
Training Material Change Package	1	2/98	Onboard

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
PDA	Fleet Introduction	FY96	Completed
TSA	Delivered Technical Training Equipment	FY97	Completed
TSA	Delivered Curricula Materials	Dec 97	Completed
TA	Began Follow-on Training	May 00	Completed
TSA	Developed Update Draft NTSP	Nov 00	Completed
DA	Promulgated Draft NTSP for Review	Nov 00	Completed
PDA	Submitted Proposed NTSP to OPNAV	Aug 01	Completed
DCNO (MPT)	Approve and Promulgate NTSP	Oct 01	Pending

PART VI - DECISION ITEMS/ACTION REQUIRED

DECISION ITEM OR ACTION REQUIRED	COMMAND ACTION	DUE DATE	STATUS
Add AECM training to NAMTRA Loading Courses	NAMTRAGRU HQ	Jul 01	Completed
Add AECM training to HSL Loading Courses	NAMTRAGRU HQ	Jul 01	Completed
Add AECM training to TYCOM Loading Courses	CNAL / CNAP	Jul 01	Completed
Add AECM training to FTC Loading Courses	CINCLANT / CINCPAC	Jul 01	Completed

PART VII - POINTS OF CONTACT

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SUMMARY OF COMMENTS
ON THE
AIRBORNE EXPENDABLE
COUNTERMEASURES
DRAFT NAVY TRAINING SYSTEM PLAN
MAY 2001
N88-NTSP-A-50-0109/D

Prepared by: AOC Jerry Hauer, AIR 3.4.1
Contact at: (301) 757-8281
Date submitted: August 2001

**COMMENTS / RECOMMENDATIONS ON THE
PROGRAM TITLE
DRAFT NAVY TRAINING SYSTEM PLAN**

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ACTIVITIES PROVIDING COMMENTS:

Chief of Naval Operations (N79).....	1
Chief of Naval Education and Training (MTU 4030)	2

**COMMENTS / RECOMMENDATIONS ON THE
PROGRAM TITLE
DRAFT NAVY TRAINING SYSTEM PLAN**

ACTIVITY NAME: Director of Naval Training and Education (N79)

COMMENT: Page IV-2

Recommend stating the status of the TTE (Inert Chaff Countermeasure Set AN/ALQ-190(V)1) at MTU 4030 Mayport and MTU 1005 Jacksonville. The CINs are C-646-4109 and C-102-9404, respectively.

INCORPORATED: YES

REMARKS: None

COMMENT: General

Since the safety lessons are repetitive in nature, it may be cost effective to videotape lessons and then make copies for use in training courses at formal schools, and as refresher training in fleet squadrons.

INCORPORATED: NO

REMARKS: The various schoolhouses have different requirements. PMA205 recommends waiting until the PMA272 course comes out and then make the change as all schoolhouses should receive an updated course of instruction.

**COMMENTS / RECOMMENDATIONS ON THE
PROGRAM TITLE
DRAFT NAVY TRAINING SYSTEM PLAN**

ACTIVITY NAME: Chief of Naval Education and Training (MTU 4030)

COMMENT: Page I-16

Course # C-646-4109 is a stand-alone course and not part of the D/E 646-7007 training track; however, C-646-4108 is part of the training track and should be listed here.

INCORPORATED: YES

REMARKS: None

COMMENT: Page III-3

No training devices are listed as required, although NAMTRA Headquarters is attempting to set up a trainer with Chaff/Flare capability for course C-646-9412 for loading.

INCORPORATED: NO

REMARKS: It will be identified in future iterations of this NTSP once it has been acquired and in place.